SOUTH INDIAN MUSIC

Third Edition



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Preface to the Third Edition.

The chapters on Raga, Raga Lakshana, Musical Form, Folk Music, and Musical Instruments have been amplified. The evolution of the scheme of 72 melas and the mela nomenclature are explained in chapter II. The 60 points under which a detailed study of ragas can be made are dealt with in chapter III. Explanations of some more Technical Terms have been added to chapter IX. The Lakshana of Purvakalyani is an addition to this edition. The book has been carefully revised and brought upto-date.

THE AUTHOR.

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The outstanding feature of Indian music is the raga system. Every raga is a distinct musical entity by itself and possesses well-defined characteristics. The ideal of absolute music is reached in the concept of raga. Ragas are so many statues visible, or rather perceivable by the aural sense. They are solid musical facts and every musician is conscious of Musical compositions are concrete forms of the abstract raga. They are so many manifestations of the raga. They are the mirrors or channels through which we are able to see the form of the raga. The beauties underlying a raga are very subtle and delicate. Whereas a musical composition presents only a certain aspect of a raga, the detailed alapana of the same raga enables us to visualize it in its full form. Theoretically the number of ragas is infinite. Singing or performing raga alanana (raga exposition) demands the highest degree of musical training and culture. Some ragas admit of an elaborate exposition while others admit of only a brief exposition.

> योऽसौ ध्वनिविशेषस्तु स्वरवर्णविभूषितः । म्क्षको जनचित्तानां स च राग उदाहृतः ॥

> > Matanga's Brhaddesi.

And,

योऽसौ ध्वनिविशेषस्तु स्वरवर्णविभूषितः । रञ्जको जनचित्तानां स रागः कथितो बुधैः ॥

Sarngadeva's Sangita Ratnakara.

A raga is that which is beautified or decorated by the tonal excellence of svaras and varnas and which gives pleasure to the mind of the listener. It is the sequence or combination of appropriate svara varnas that goes to make a raga. Varna here means the mode of singing—gāna kriya. Also,

रञ्जकः स्वरसन्दर्भो राग इत्यभिधीयते ।

Ahobala's Sangita Parijata.

A combination of svaras capable of pleasing the ear constitutes a raga.

In order to have a melodic entity, a raga must take at least five of the twelve notes of the scale. Even in the case of those ragas which take only four notes in the ārohana, the avarohana supplies the deficiency by being either audava, shādava or sampūrna. An audava raga with both ma and pa deleted will lack fixity and will be somewhat nebulous in character. Svaras which are eschewed in a raga, if introduced, will shatter its melodic individuality. Such notes will be apasvaras (wrong notes) for the raga and will produce a repulsive effect.

Classification

The subject of raga classification in Indian music may be studied under the following heads:—

- Raga classification in ancient music, including the classification that prevailed in ancient Tamil music.
- (2) Raga classification in Hindusthāni music.
- (3) Raga classification in Karnatic music.

Of these, the topics mentioned in (1) and (2) are dealt within the next volume of this series. Here only No. (3) is dealt with.

The modern conception of a raga dates from the time of Matanga Muni (5th cent A.D.). The classification of ragas into janaka ragas and janya ragas is the most scientific system of raga classification. There are 72 janaka ragas based on the twelve svarasthanas of the sthayi. The scheme of 72 melakarta ragas provides an excellent workable arrangement and it is explained in detail in Chap. II Whereas the number of janaka ragas is fixed, the number of janya ragas is practically unlimited.

The janaka-janya system of raga classification need not give rise to the presumption that all janaka ragas are older than janya ragas. In fact a good number of these janaka ragas came into existence only during the modern period of Indian music. Many janya ragas like Gaula, Vasanta and Nilāmbari have been in existence for more than a thousand years. The raga Kathanakutuhalam may be mentioned as an example of a janya raga, which came into existence after the scheme of 72 melakartas was thought of.

The classification of janya ragas into varja, vakra and upānga, bhāshānga types has already been referred to (see Book II, Chapter II). These classifications are however not mutually exclusive. For example, a varja raga can be vakra and upānga; and a varja raga can be vakra and bhāshānga. Likewise a varja raga can be nonvakra, and upānga or bhāshānga. Again there are non-varja, vākra ragas of both the upānga and bhāshānga types and non-varja, non-vakra ragas of the bhāshānga type. The table on the next page gives examples for these different types of janya ragas:—

Table 1.

	KIND OF	RAGA.		EXAMPLE.
Varja	vakra	& upānga		{ Sriraga { Balahamsa
p	••	& bhāshānga		{ Mukhāri { Nīlāmbari
Varja	non-vakra	& upānga	•••	{ Dhanyāsi Mohana
,,	"	& bhāshānga		{ Kāmbhoji Bilahari
Von- varja	vakra			{ Manjari Karnātaka byāg
"	"	& bhāshānga	•••	{ Saurāshtra Sāranga
**	non-vakra	& bhāshānga		{ Bhairavi Mānji

Bhāshānga ragas like Kāmbhoji, Bilahari, Nilāmbari and Sāranga take only one accidental. Those like Hindusthan Behāg take two accidentals. There are a few bhāshānga ragas like Hindusthān Kāfi which take three accidentals. Thus from the point of view of the number of anya svaras taken, bhāshānga ragas may be classified into:—

- (1) Ekānyasvara bhāshānga raga i.e. taking only one foreign note.
 - (2) Dvi-anyasvara bhāshānga raga i.e. taking two foreign notes.

- (3) Tri-anya svara bhāshānga raga i.e. taking three foreign notes.
- Note.—In (2) and (3), the anya svaras may be taken as pertaining to one or two different melas.

In a bhāshānga raga, there need not necessarily be the trace of a foreign raga. The accidental note is only a welcome visitor and serves to establish the svarupa of the raga. The foreign note as a rule should not be unduly emphasised in bhāshānga ragas. The test for a bhāshānga raga is, that the foreign note should belong to a svarasthāna not covered by its parent scale. The mere shade of a note emanating from an adjacent svarasthāna will not suffice.

For example, ragas like Sāveri and Begada present an interesting study in this connection. In some specific sanchāras therein, some notes are sung slightly flattened or sharpened but not to such an extent as to be considered belonging to the neighbouring svarasthānas. For example in Sāveri, in the prayogas s r g r s and p d n d p, the notes: g and n are slightly flattened and sung; but they are not so lowered in pitch as to become sādhārana gāndhāra and kaisiki nishāda. Again, in Begada, in the prayoga P, d N d P the kākali n is slightly flattened and sung; but it does not become actually kaisiki nishāda. Such ragas might be called ardha $bh\bar{a}sh\bar{a}nga$ (semi-bhāshānga) ragas. In the Sangita Sampradāya Pradarsini even these ragas, where only a neighbouring sruti is touched are styled bhāshānga ragas.

In bhāshānga ragas, the accidentals usually figure in sanchāras. But in a few cases, the accidental is incorporated in the ārohana and avarohana of the raga itself. That is to say the anya svara is heard even when merely the scale or the mūrchhana is sung. Asāveri, Bhairavi, Ananda bhairavi, Mukhāri and Sāranga are good examples of this type of bhāshānga raga. Thus bhāshānga ragas can be classified into:—

- Where the anya svara is incorporated in the archana and avarchana of the raga.
- (2) Where the anya svara is not incorporated in the archana and avarchana of the raga, but occurs in the sancharas of the raga. In this type of bhāshānga raga, it is possible to establish the melodic individuality of the raga without touching phrases containing the foreign note.

Whereas the compulsory use of the anya svara is the feature of the former type of bhāshanga raga, the optional use of the anya svara is the feature of the latter type.

Fixing janaka ragas for janya ragas.

It will be useful at this stage to ponder awhile about the rules observed in fixing janaka ragas for janya ragas. All janya ragas must either be upānga or bhāshānga. The following considerations are taken into account in fixing their janaka ragas.

In the case of the upānga ragas of the audava-sampūrna, sampūrna-audava, shādava-sampūrna and sampūrna-shādava varieties, and the vakra-sampūrna and sampūrna-vakra varieties, the janaka ragas are easily determined, since all the sapta svaras are represented in either the ārohana or the avarohana. It is also easy to determine the janaka ragas for the upānga ragas of the shādava-shādava, shādava-audava, audava-shādava

and audava-audava types, if in each case, the sapta svaras are found represented in the ārohana and avarohana taken together. It is likewise easy to fix the janaka ragas for the panchama-varja shādava-shādava, shādava-audava, audava-shādava and audava-audava ragas of the upānga type, provided the notes $r \ g \ m \ d \ n$ are represented in the ārohana and avarohana taken together. The difficulty arises only in the case of those upānga ragas wherein one or two notes are completely eliminated in both the ārohana and avarohana.

Taking Mohana, for instance, it might be argued that it can be taken as a derivative of the Dhira Sankarābharana, Vāchaspati and Mecha kalyāni melas also, taking into consideration its svarasthānas. Likewise Sarasāngi, Latāngi and Mecha kalyāni might be cited as the other possible janaka melas for Hamsadhvani; and Natabhairavi, Chārukesi and Harikāmbhoji as the other possible janaka melas for Madhyamāvati. The author of the Sangita kaumudi tried to find a solution for this anomaly by enunciating a new rule—that, in all such cases the ragas should be allocated to the earliest possible mela in the scheme of 72. This theory naturally threw overboard all the relevant and important considerations that have weighed with the music scholars in the past in fixing the janaka melas for janya ragas. Considerations like:—

- (1) suggestive affinities to particular melas,
- (2) the subtle srutis figuring in the janya ragas, and
- (3) the history behind the development of the janya ragas; were deemed really important in determining the janaka

were deemed really important in determining the janaka melas. The theory referred to above takes into consideration only the svarasthānas of a raga. The author of this theory was naturally led to place Kuntalavarāli under Vanaspati, Malahari under Gāyakapriya, Nāgasvarīvali under Chakravākam and Madhyamāvati under Natabhairavi, and so on. This method of allocating janaka melas is merely mechanical and has not found support.

All bhāshānga ragas were originally of the upānga type. People gradually discovered the enhanced beauty of the ragas when foreign notes were introduced and sung. The vidyans as well as the listeners relished the changes and slowly acquiesced in them. Bhairavi which was an upanga raga centuries ago, became a bhāshānga raga only later on. Khamās is an example of a janya raga which became bhāshānga in yerv recent times. Let it be remembered that Tyagaraja's Khamās as seen in his two kritis: Sujanajivana and Sitanate is only an upānga raga. Therefore in bhāshānga ragas, the raga which would have been the janaka raga, in its prior upanga condition is presumed to be the parent mela even after the It is for this reason that Bhairavi and Anandabhai. change. ravi are regarded as the janyas of Natabhairavi.

In bhāshānga ragas, with a few exceptions, the accidental comes a lesser number of times compared to the svakiya svara. For example, in a Kāmbhoji raga piece, it will be found that the kākali nishāda (foreign note) occurs a lesser number of times compared to the kaisiki nishāda. So we say that Harikāmbhoji is the parent raga of Kāmbhoji on the presumption that the kaisiki nishāda is the inherent note or the svakiya svara. Likewise in Bilahari, the kaisiki nishāda occurs a lesser number of times compared with the kākali nishāda, and so Bilahari is deemed to be a derivative of Dhira Sankarābharana and so on.

In the case of some bhāshānga ragas, we are in a position to determine their original upānga condition almost

accurately. The accidentals are later additions. Even though these accidentals occur a greater number of times compared to the svakiya svaras, still they are regarded as anya svaras only. Ananda bhairavi is a good instance in point. In this raga, the accidental (chatusruti dhaivata) occurs more frequently than the suddha dhaivata; still the raga is presumed to be a derivative of Nata bhairavi only.

Bhāshānga ragas are a natural growth. In some works they are referred to as desānga ragas.

The present meaning associated with the term bhāshānga raga is not more than three centuries old. In earlier times it connoted quite a different thing. It was regarded by some as a raga of provincial origin; thus, Saurāshtra, Mālavi and Surati were thought of as bhāshanga ragas. In the same manner the present meanings associated with the terms, raganga raga and upanga raga are a later development. They had different meanings in earlier times.

Usually in bhashanga ragas, the svakiya svara and the anya svara can be sounded in all the three octaves. But Punnāgavarāli furnishes a remarkable example of a bhāshānga raga wherein the svakiya svara occurs in the madhya sthāyi and the anya svara in the mandra sthāyi.

The term kriyānga raga does not denote any particular type of raga in modern music. Different scholars in the past held different views regarding the exact connotation of this term. The Sangita darpana of Damodara Misra mentions that kriyānga ragas were those that infused enthusiasm in us. Others held that they were ragas whose individualities were revealed by particular kriyas or sanchāras. Some held the view that kriyānga ragas were the same as vakra ragas; and some that they were sankīrna ragas.

Yet others thought that they were ragas whose names had the suffix, kriya; thus Devakriya, Rāmakriya, Gamakakriya etc. A few held the view that kriyānga ragas were those which took foreign notes.

In some janya ragas, the scope of development is restricted to a limited part of the mandra and madhya sthāyis. The tāra sthāyi shadja is not touched at all. Such ragas have been classified into:—

 Nishadantya, where the madhya sthāyi nishāda happens to be the highest note touched;

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- (2) Dhaivatantya, where the madhya sthāyi dhaivata happens to be the highest note touched;
- (3) **Panchamantya**, where the madhya sthāyi panchama happens to be the highest note touched.

The table below gives examples for these three different types of janya ragas:—

Table II.

Type of	Examples					
janya raga	Name of Its ārohana the raga and avarohana		Its janaka mela			
Nishādāntya	Nādanāma- kriya	srgmpdn ndpmgrsn	15. Māyā- malavagaula			
Dhaiyatāntya	Kuranji	snsrgmpd dpmgrsns	29. Dhira- sankarā- bharana			
Pancha- māntya	Navaroj	pdnsrgmp mgrsndp	29. Dhīra- sankarā- bharana			

The $S\bar{a}ma$ $g\bar{a}na$ scale (m g r s n d p) of ancient music stands as an example of a $madhyam\bar{a}ntya$ raga.

Janya sampurnas are yet another group of janya ragas. In such ragas as the name itself indicates all the sapta svaras are represented in both the ārohana and avarohana. Such ragas differ from their respective janaka ragas either by being vakra or bhāshānga, or by having special characteristic prayogas which bring out the svarupa (form) of the raga; or, by the compass of its prastāra being limited to a defined range. For instance, there is no sanchara for Pantuvarali above the tara sthayi gandhara. Janya sampūrnas, if they are upānga, must necessarily be vakra; if bhāshānga, they may be vakra or non-vakra.

Classification of ragas in general.

In addition to the janaka-janya system, ragas in general have been classified into:—

I. Ghana, Naya, Desya.

A ghana raga is a raga whose characteristic individuality is brought about more easily by playing madhyamakāla or tāna (ghanam) in it. In such ragas, the notes may be played in a plain and unadorned manner without detriment to raga bhava.

Examples. The traditional five ghana ragas (ghana panchaka): Nāta, Gaula, Arabhi, Srīraga and Varāli.

Kedāram, Nārāyanagaula, Rītigaula, Sāranganāta and Bauli are another series of five ghana ragas and are referred to as the dvitiya ghana panchakam.

In a naya or rakti raga, the characteristic individuality is brought about both by ālāpana in slow tempo and tāna.

Examples. Todi, Bhairavi, Kāmbhoji, Sankarabharana.

In a desya raga, the characteristic individuality is easily brought about by $\bar{a}l\bar{a}pana$.

 $\begin{tabular}{ll} $Examples. & K\bar{a}nada, & Hindusth\bar{a}n & K\bar{a}fi, & Jhinjhoti, \\ Hindusth\bar{a}n & Beh\bar{a}g. & \end{tabular}$

Sometimes the term ghana raga is loosely used in the sense of a raga affording wide scope for ālāpana. Ragas usually resorted to for singing pallavis in concerts are, in this sense, referred to as ghana ragas.

Some scholars regard ghana ragas as those which have a grand and majestic effect; naya or rakti ragas as those which have a soft and soothing effect and desya ragas as those which combine in themselves the effects of both these types of ragas.

It may be of interest to note that in the past, vidvāns began their concerts with the singing of ghana ragas, followed them up with the rendering of compositions and pallavis in naya or rakti ragas and closed their concerts with some delightful ālāpanas of desya ragas. Tana varnas have now usurped the place of the ghana panchakam at the commencement of a concert programme.

II. Karnataka, Desva.

Karnātaka ragas are those which are indigenous to South Indian Music like, Bhairavi, Ananda Bhairavi, Kedāragaula and Sankarābharana. Desya ragas are those which came from Northern India and other countries and have become popular in the South.

E.camples. Pharaz, Jhinjhoti, Khamās and Hindusthān Behāg.

This is a geographical classification and has acquired significance since the time the bifurcation into the two systems of music, Karnatic and Hindusthani, took place.

III. Suddha, Chhayalaga, Sankirna.

This is an old system of classification and was propounded before the janaka-janya system came into vogue. Says Matanga:

शुद्धच्छायालगप्रोक्ता संकीर्णेच तथैवच

This sloka is quoted in the Sangita Darpana.

Suddha ragas were pure ragas and they conformed to the prescribed rules. They included within their compass the modern melakarta ragas and the janya ragas of the upānga type.

Examples. Māyāmālavagaula, Madhyamāvati, Sriranjani, Mohana, Kalyāni.

A Chhāyālaga or Sālanka or Sālaga raga was a raga which combined in itself the lakshana of another raga by taking a foreign note or by possessing common sanchāras. That is, the chhāya or trace or shade of another raga or the colour of another raga, was found in a sālaga raga.

Examples. Saurāshtra, Sāranga.

A sālaga raga need not necessarily be a bhāshānga raga. Bilahari may be cited as an example of a bhāshānga raga of the non-chhāyālaga type and Sourāshtra as an example of a bhashanga raga of the chhāyālaga type.

A sankirna, sankrama or misra raga was a mixed raga. Traces of more than one raga were discernible in such ragas in a large measure on account of the presence of foreign notes or sanchāras suggestive of other ragas. Sankirna ragas are extreme types of chhāyālaga ragas. The chhāyas of the foreign ragas are very pronounced in them. Nevertheless sankirna ragas have their own melodic individuality.

Examples. Ahiri, Ghanta, Mānji, Jujāvanti.

There are many folk melodies in misra ragas.

IV. Classification based on Kampita svaras.

- (a) Sarva svara gamaka varika ragas are those wherein all the notes figuring in the raga are subject to the kampita gamaka; e.g. Todi, Mohana and Kalyani. These ragas are also referred to as muktānga kampita ragas.
- (b) Ardha kampita ragas are those wherein some of the notes figuring in the raga are subject to kampita; e.g. Kuntalavarali.
- (c) Kampa vihina ragas are those wherein the notes may be played pure i.e. without shake and without detriment to raga bhāva; e.g. Katanakutuhalam.

V. Classification according to Rasa.

In addition to the above, ragas in general may be classified according to their rasas i.e., the feelings they arouse in us.

Punnagavarali and Nadanamakriya are instances of ragas which arouse feelings of sorrow. Atana, Sama and Sahana are respectively examples for raudra, santa and karuna rasas. Khamas is a good example of a raga for sringara (love) rasa. Some ragas are capable of arousing two or more feelings. Even in such cases it is possible to say which is the primary or the dominant rasa of the raga and which is secondary.

VI. Classification according to the time of singing.

Lastly ragas in general might be classified according to the time of the day or night or seasons during which they should be sung. Some ragas there are, which may be sung at all times.

Examples. Ragas to be sung before sunrise are: Bhupāla, Revagupti, Malayamaruta and Desākshi. Bilahari, Kedaram and Dhanyasi are morning ragas. Asāveri is a forenoon raga; Sriraga and Madhyamavati are midday ragas. Vasanta, Nātakuranji and Pūrvakalyani are evening ragas. Chakravāka, Bhairavi, Kāmbhoji and Arabhi are instances of ragas which can be sung at all times.

All scholars are not agreed with regard to the time theory of ragas. The fact that when a king asks for a raga, a vidvan can sing it, irrespective of the time or season during which it should be sung, shows that the rule relating to the time for singing a raga was not a hard and fast one.

VII. Mitra ragas.

Ragas whose names possess common endings are called mitra ragas. Excepting this common terminology, there is nothing else in common between these ragas.

Examples. Rītigaula, Nārāyanagaula, Kedāragaula, Chhāyāgaula, Mālavagaula and Kannadagaula;

Also, Nātaka*priya*, Kokila*priya*, Bhava*priya*, Rāmapriya, Shanmukha*priya*, Rishabha*priya* and Rasika*priya*;

Harikāmbhoji, Yadukulakāmbhoji, Chenchukāmbhoji, Gummakāmbhoji, Hamsakambhoji, Purnakāmbhoji Kuntalakambhoji, Sudhakambhoji and Sajjakambhoji;

Gunda*kriya*, Sindhurama*kriya*, Nadanama*kriya*, Deva*kriya* and Gamaka*kriya*;

Hindolavasanta, Gopikavasanta and Mallikāvasanta;

Garudadhvani, Nagadhvani, Hamsadhvani, Kokila-dhvani, Pikadhvani, Jhankāradhvani and Mayuradhvani;

Gambhiranata, Ahirinata Saranganata and Chhayanata;

Sarasvatimanokari, Devamanokari, Isamanokari, Ramāmanokari, Jayamanokari, Kamalāmanokari, and Madhavamanokari;

Punnāgavarali, Pratapavarali, Sokavarali, Pantuvarali and Kuntalavarali;

Jayantasri, Malavasri and Vijayasri.

Ragas which can aptly succeed one another in a ragamalika are also termed *mitra ragas*. Therefore a raga which will be a mitra raga for a particular raga may turn out a satru raga for another.

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Time of singing Kampita svara Based on Based on the on Rasa Suddha, Chhaya- Ghana, Naya Karn taka, Based Desya Raga(rakti) or Desya laga or Sankirna or Janya Janaka

Raga classification in general.

* The classifications pointed out in this Table are also not mutually exclusive. For example a janaka raga like Mayamalavagaula is a suddha raga and also a rakti raga; a janya raga like Hamir kalyani is chhayalaga raga and also a desya raga and so on.

CHAPTER II

THE 72 MELAKARTA RAGAS

* Scheme of Arrangement

The characteristic features of a janaka raga, as already explained are:—

- (1) the sampurna character of its archam and avarchama i.e., the full complement of the seven notes being represented in both the ascent and the descent.
- (2) The krom: samparna character of its ārohana and avarchana ie, the ascent and descent being regular and not zigzag or vakra; in other words, taking the ārohana and avarchana separately, each svara letter occurring only once and in the krama guti.
- (3) The homogeneous character of the svaras in both the archana and avarchana; i.e., the individual svaras being of the same kind in both the ascent and descent. In other words, the notes: ri ga ma dha ni are not of one kind in the archana and of a different kind in the avarchana. Thus Bhairavi, which takes a krama sampurna archana and avarchana cannot be a melakarta, because it takes one kind of dhaivata (chatusruti) in the archana and another kind of dhaivata (suddha) in the avarchana.

There are 72 janaka ragas and they are arranged according to a definite plan. This plan of arrangement helps us to give the svaras taken by every one of the 72 mela ragas without difficulty. The scheme of 72 parent modes is

^{*} The scheme is explained here in outline. For a fuller knowledge of the subject, the reader is referred to the Author's Melakarta Januar va Scheme (As. 12). The Indian Music Publishing House, G. T., Madras.

a mathematically accurate scheme and is based on the universally recognised twelve semitones of the gamut. The fixed notes sa and pa are present in all the 72 karta ragas and serve to give a certain fixity to their melodic character.

The Scheme

The 72 melakarta ragas are grouped under twelve chakras, each chakra comprising within it six mela ragas. The scheme is bifurcated into two halves. In the first half which includes chakras I to VI and melas 1 - 36, the suddha madhyama occurs as a constant note, and in the second half, which includes chakras VII to XII and melas 37 - 72. the prati madhyama occurs as a constant note. For this reason the first six chakras are referred to as the suddha madhyama chakras and the second six chakras as the prati madhyama chakras. The first half or the suddha madhyama half is referred to as the purva group and the second half or the prati madhyama half as the uttara group. Every nurva melakarta has therefore its corresponding uttara melakarta and vice versa. The note ma is thus the bisecting point in the Melakarta scheme, the uttara half being a duplicate of the purva half, with the prati madhyama in the place of the suddha madhyama. The names of the twelve chakras as well as the serial numbers of the melakartas included in them are given in the table on the next page.

It may incidentally be noted that the names of the chakras are themselves suggestive of their serial numbers. Thus indu means moon and there is only one moon; and the name naturally suggests the first chakra. Likewise netra means eye and all living beings have two eyes; and the name naturally suggests the second chakra; likewise the

chatur vedas, pancha bānas (the five bānas of Manmatha), shad rutus (six seasons), sapta rishis, ashta vasus, ekādasa rudras and dvādasa ādityas (12 suns according to the purānas) suggest appropriately the serial numbers: iv, v, vi, vii, viii, xi and xii. The names agni and brahma suggest the numbers 3 and 9 respectively, because of the concepts of agni trayam or 3 sacred fires (Dakshina, Āhavaniya and Gārhapatya) and 9 prajāpatis (Brahmas), in our sacred literature. Di i or Dik suggests the number ten, because of the ten directions, north, south, east, west; the four corners: north-east, south-east, north-west and south-west; and up and down.

TABLE IV
The 12 Chakras

sudd	ha madh	nprising the yama or the artas (1 - 36).	Second half comprising the prati madhyama or the uttara melakartas (37 - 72).				
name	er and of the ikra	the included name of the		Mela ragas included in it.			
I. 11	Indu Netra	1 - 6 7 - 12	VII.		37 - 42		
	Agni	13 - 18	IX.	Vasu Brahma	43 - 48 49 - 54		
- 7	Veda	19 - 24	X.	Disi	55 - 60		
V. VI.	Bīna Rutu	25 - 30 31 - 36	XI.	Rudra [Aditya	61 - 66 67 - 72		

Having seen that the notes sa and pa are present in all the 72 melakartas and also that the suddha madhyama occurs in mela ragas 1 - 36 and the prati madhyama in mela ragas 37 - 72, it remains for us now to see in what order the varieties of the notes ri ga dha ni occur in them.

Within a chakra, the initial and terminal notes of both the pūrvānga and the uttarānga remain the same. Again, within a chakra, the pūrvānga notes remain constant, i.e., the rishabha and gāndhāra retain their identical character in all the six mela ragas within the chakra—the change occurring only in the dhaivata and nishāda.

In every chakra, the

1st	mela 1	aga	takes	the	su 1dha	dha,	suddha	ni	
2nd		,,			suddha	$dh^{:i}$,	kaisiki	ni	
3rd		,,			sa ldha	dha,	kākali	ni	
4th		,,			chatusruti	dha,	kaisiki	712	
5th		,,			chatusruti	dha,	kākali	ni	
6th		,,			shatsruti	dha,	kākali	ni	

The rishabha-gāndhīra varieties occur in the same order as the dhaivata-nishāda varieties, but only change from chakra to chakra, instead of from mela to mela. That is, the

1st	chakra	takes	the	suddha	ri,	suddha	ga
2nd	•	,,		suddha	r^i ,	sādhārana	ga
3rd		,,		suddha			ga
4th		,,		chatusruti	ri,	sīdhārana	ga
5th		,,		ch stusruti	ri,	antara	ga
6th		,,		shatsruti	ri,	antara	ga

These six rishabha - gʻindhāra combinations repeat in the same order in the uttara half i.e., in chakras VII—XII.

The table on pages 22 and 23 gives the names of the 72 melakarta ragas as also the notes entering into their formation:

Purva Melakartas or Suddha Madhyama Melakartas (ma) F. Natural

Chakra No. and name.	Purvanga svaras.	Uttaranga svaras.		Name of the melakarta and its number.
	i	dha - na	1	Kanakāngi
I		dha - ni	2	Ratningi
1	ra - ga	dha - nu	3	Gīnamūrti
Indu	74 - ya	dhi - ni	4	Vanaspati
mau		dhi - nu	5	
	<u> </u>	dhu - nu	6	${f T}$ āna ${f r}$ ū ${f p}$ i
		dha - na	7	Senīvati
II		dha - ni	8	Hanumatodi
11	ra - gi	dha - nu	9	Dhenuka
Netra	ra - gi	dhi - ni	10	Nātakapriya
Herra		dhi - nu	11	Kokilapriya
]	dhu - nu	12	Rūpavati
		dha - na	13	Gāyakapriya
III		dha - ni	14	
111	ra - gu	dhu - nu	15	Māyāmālava gaula
Agni		dhi - ni	16	Chakravākam
луш		dhi - nu	17	Suryakintam
		dhu - nu	18	Hītakāmbari
		dha - na	19	Jhankāradhvani
IV		dha - ni	20	Nathabhairavi
1,4	ri - gi	dha - nu	21	Kīravāni
** 1	11-91	dhi - ni	22	Kharaharapriya
Veda		dhi - nu	23	Gaurimanohari
_		dhu - nu	24	Varunapriya
		dha - na	25	Māraranjani
v		dha - ni	26	Chārukesi
Y	ri - gu	dha - nu	27	Sarasāngi
Bāna	71 - ya	dhi - ni	28	Harikāmbhoji
Dana		dhi - nu	29	Dhirasankarābharanan
		dhu - nu	30	Nāgānandini
		dha - na	31	Yāgapriya
VI		dha - ni	32	Rāga vardhani
, _	ru - gu	dha - nu	33	Gāngeyabhushani
Rutu		dhi - ni	34	Vägadhisvari
		dhi - nu	35	Sülini
	9	dhu - nu	36	Chalanāta

F. Sharp. (mi.) Uttara Melakartas or Prati Madhyama Melakartas

Name of the melakar and its number.	ta	Uttaranga svaras	Purvanga svaras	No. and	
Sālagam	37	dha - na	i de la companya de l		
Jalārnavam	38	dha - ni		VII	
Jhālavarāli	39	dha - nu	ra - ga	V11	
Navanitam	40	dhi - ni	74 - ga	Rishi	
Pāvani	41	dhi - nu		IVISIII	
Raghupriya	42	dhu-nu			
Gavāmbhodhi	43	dhu - na			
Bhavapriya	44	d'a - ni		VIII	
Subhapantuvarāli	45	dha - nu	ra - qi	VIII	
Shadvidha mārgini	46	dh' - ni	ra - gi	Vasu	
Suvarnāngi	47	dni - nu	100	vasu	
Divyamani	48	dhu - nu			
Dhavalāmbari	49	dha - na		l .	
Nāmanārāyani	50	dha - ni		TN	
Kāmavardhani	51	dha - nu		IX	
Rāmapriya	52	dhi - ni	ra - gu	Brahma	
Gamanasrama	53	dhi - nu		Dranma	
Visvambhari	54	dhu - nu			
Syāmalāngi	55	dha - na			
Shanmukhapriya	56	dha - ni		X	
Simhendra madhyama	57	dha - nu		Λ	
Hemavati	58	dhi - ni	ri - gt	Disi	
Dharmavati	59	dhi - nu		Disi	
Nitimati	60	dhu - nu			
Kāntāmani	61	dha - na			
Rishabhapriya	62	dha - ni	× , 9,	XI	
Latingi	63	dha - nu		$\Lambda 1$	
Vāchaspati	64	dhi - ni	ri - gu	Rudra	
Mechakalyāni	65	dhi - nu		Ruara	
Chitrămbari	66	dhu - nu			
Sucharitra	67	dha - na	- 1 1		
Jyotisvarūpini	68	dha - ni		XII	
Dhātuvardhani	69	dha - nu		AII	
Nāsikā bhūshani	70	dhi - ni	ru - gu	Aditya	
Kosalam	71	dhi - nu		Aditya	
Rasikapriya	72	dhu - nu			

The nomenclature given here for the 72 melakartas is the one in vogue and is found for the first time in Govindacharya's Sangraha chudā:nani (18th century). The other nomenclature for the 72, which includes asampurna scales, is given in the author's Melakarta Janya raga scheme.

The syllables, pa पा, sri श्री, go गो, bhu भ , ma मा, sha पा mnemonically represent the first, second, third, fourth, fifth and sixth melas of each chakra and may be styled the mela These syllables by themselves indicate the mnemonics numbers 1, 2, 3, 4, 5 and 6 according to the Katapayadi formula (see below). Thus when these syllables are tacked on to the chakra names, we can calculate the serial numbers Thus netra - pa. netra - sri, netra - go, of the melas netra - bhu, netra - ma and netra - sha signify respectively the melakartas of serial numbers 7, 8, 9, 10, 11 and 12. Again agni-go stands for the 3rd mela in the III chakra and is the 15th mela, Māyāmālavagaula; bana - bhu stands for the 4th mela in the V chakra and is the 28th mela, Harikāmbhoji and so on. It may be noted that in the phrases: agni - go and bana-bhu, the chakra mnemonic gives the clue to the purvanga svaras and the mela mnemonic, to the uttaranga svaras of the melakarta.

Utility of the Melakarta Scheme.

The utility of the scheme lies in the fact that, from the serial number of a melakarta raga, one can readily find the svaras taken by it. Suppose the svaras of the 27th melakarta raga are to be determined; proceed as follows:—

(1) Insert the svaras: sa, pa and the higher octave sa in their appropriate places leaving blank spaces for the remaining svaras as follows:—

sa . . . pa . . . sa

(2) Notice whether the given number belongs to the purva group or the uttara group. The given number 27, belongs to the purva group and is therefore a suddha madhyama melakarta. Now insert ma in its appropriate place in the line as follows:—

sa . . *ma* pa . . sa

(3) Next, in order to determine the notes of the pūrvānga, find out the chakra to which the given number belongs. The number 27 belongs to the 5th chakra (comprising melakartas 25 - 30) and hence ri (chatusruti rishabha) and gu (antara gāndhāra) are the notes taken. Now insert ri and gu in their proper places thus:—

sa ri gu ma pa . . sa

(4) Now, to determine the notes of the uttarānga, find the rank of the given melakarta within the chakra. The number 27 occupies the 3rd rank; hence dha (suddha dhaivata) and nu (kākali nishāda) are the notes taken. Now insert dha and nu in the line as follows:—

sa *ri gu ma* pa *dha nu* sa

Thus the melakarta raga No. 27 takes the notes:—sa ri gu ma pa dha nu or shadja, chatusruti rishabha, antara gandhara, suddha madhyama, panchama, suddha dhaivata and kakali nishada. This is the melakarta raga known as Sarasāngi and its mnemonic phrase will be bāna-qo.

In cases where the given number belongs to the uttara group (comprising melakartas 37 - 72) subtract 36 from the

given number and the resulting figure gives the number of the corresponding suddha madhyama melakarta. Determine the lakshana of this suddha madhyama melakarta by adopting the process mentioned above; and by substituting prati madhyama for the suddha madhyama, the svaras of the melakarta raga of the given number are obtained.

The several melakartas can also be represented by their svara mnemonics; thus,

ra gu ma dha nu will signify the Agni-go mela or Māyāmālavagaula; and ri gu mi dhi nu will sīgnify the Rudra-ma mela or Mechakalyāni and so on.

The naming and singing of the note chatusruti rishabha with the letter qa, in the case of those scales wherein both the suddha rishabha and chatusruti rishabha occur (melas 1 - 6 and 37 - 72) became a musical necessity. Vocalists and Instrumentalists are alive to the resulting auditory delusion. The practice of singing a note belonging to the jurisdiction of one syara, with the solfa letter of a higher or lower syara was in vogue even before Venkatamakhi's time. The practice has been approved as a matter of musical convenience. The innovation also results in the partial obliteration of the vivadi effect. The graced utterance of the concerned note removes the vivaditva altogether. The arguments aforesaid apply to the pairs (1) sādhārana gāndhāra: (shatsruti ri) and antara gandhara; (2) suddha dhaivata and chatusruti dhaivata (suddha ni); and (3) kaisiki nishada (shatsruti dha) and kakali nishāda.

It may be noted that in the scheme of 72 melas, the melakartas of serial numbers 1, 8, 15, 22, 29 and 36 are entirely distinct from one another. In other words, excepting

for the notes sa, ma and pa, the notes taken by one mela are not repeated in any of the other five. Each mela has a distinct purvānga and uttarānga and the purvānga pattern and the uttarānga pattern of each mela are symmetrical *i.e.*, the corresponding intervals between pairs of notes in the lower and upper tetrachords of each of these six melas are the same.

In the melakarta code, the reasons for ignoring the following syara combinations.

- (a) chatusruti ri and suddha $ga (\underline{ri} \underline{ga})$
- (b) shatsruti ri and suddha $ga (\underline{ru} \underline{ga})$
- (c) shatsruti ri and sādhārana $ga\left(\underline{ru} \underline{gi}\right)$

are clear. In (a), the notes belong to an identical svarasthana; likewise in (c), the notes belong to an identical svarasthana. Since, in a scale, the notes ascend by steps, these two combinations cannot validly come. In (b) the suddha ga is lower in pitch, compared to shatsruti ri; and the adoption of such a combination will result in vakratva being imported and go against the concept of regular ascent.

For the same reason, the following combinations:-

- (a) chatusruti dha and suddha ni (dhi na)
- (b) shatsruti dha and suddha ni (dhu na)
- (c) shatsruti dha and kaisiki ni (dhu ni)

are ignored in the formulation of the scheme of 72 melakartas.

It may incidentally be noticed that the number 72 is equal to twice the square of six $(6 \times 6 \times 2 = 72)$. The number 32, representing the non-vivādi melas is equal to twice the square of four $(4 \times 4 \times 2 = 32)$.

It is possible to suggest an alternative scheme of 72 melas based on the self-same twelve notes, but the present arrangement is perfect and logical, and must be left undisturbed.

Katapayadi Sankhya.

Thus, when the serial number of a melakarta raga is given or known, it is easy to give its lakshana. But how is the serial number of a melakarta determined? This is done by the application of a formula known as the ka ta pa $y\bar{a}$ di sankhya,* which is summed up in the four phrases: $k\bar{a}dinava$, $t\bar{a}dinava$, $p\bar{a}dipancka$ and $y\bar{a}dyashta$.

The first two syllables of the name of each melakarta have been so ingeniously and dexterously fitted in, as to make them subserve the purpose of this formula. This formula is based on the principal letters of the Sanskrit alphabet. The letters of the alphabet are divided off into compartments as shown in Table VI on the next page and for the purpose of this formula, each letter takes the number under which it falls. In the column next to 9, the figure zero is placed instead of ten.

^{*}It is interesting to note that this formula is made use of in many other arts and sciences of India.

				Lable	ΛI							
Katapayādi formula.	H	C 3	3	4	5	9	7	8	6	10		
Kādi nava	K	KH	IJ	HĐ	NG	HO	СНН	ſ	ЭH	NIS		
	سر 8	ঞ ক্র	×	₩ 13-	Ko \$3	ध्	冷悶	स ध	\$\$ \$\$	ন ক		
Tādi nava (a. series of 9	EH٠	HĽ	Q.	НĊ	Z.	Н	HI	А	DH	z		
letters from ta).	ю 3	ю	K)	tø Х3-	3)E)	೫-)3 10°	χο-	JS IE	29	
Pādi pancha	ď	Hd	В	BH	M							
letters from pa).	/3 P	13- Re	ত ৪	स	λŝ Fr							
Vādyashta	X	ř	·П	>	- 20	$_{ m SH}$	Ω	н				
(a series of 8 letters from ya).	त हर	ж ж	9 9	रह ११	ज्ञ ज्ञ	Y.	\s E	ys po				
						-,						

Application.—Take the first two syllables of the name of the melakarta, whose serial number is to be determined. Ascertain from the above table the numbers under which these two syllables fall and write down the two numbers in order. Then reverse this number of two digits and the resulting figure gives the number of the melakarta.

Example I.

Suppose the name of the melakarta whose serial number is to be determined is $Harik\bar{a}mbhoji$.

The first two syllables of this raga are ha and ri; ha occurs in column 8 and ri in column 2; the resulting figure is therefore 82. Now reverse this number; the result is 28. The serial number of the Hari-kāmbhoji melakarta is thus 28.

Example II ..

Suppose the serial number of the melakarta, Nāmanārāyani is to be determined:—

The first two syllables herein are na and ma and they give the figure 05. By reversing this we get 50. 50 is thus the serial number of the melakarta, Nāmanārāyani.

Other examples are to be worked out in the same manner.

Where samyuktāksharas or conjunct consonants figure in the katapayādi prefixes, the rule is, that the second or the last component letter of the conjunct consonant should be taken into consideration. Thus in Ratnāngi, Suryakānta, Jhankāradhvani, Gāngeyabhushani, Shadvidhamārgini, Shanmukhapriya, Dharmavati and Kāntāmani the correct serial numbers are obtained in this manner.

But in the case of the following melakartas: Chakravāka, Divyamani, Visvambhari, Syāmalāngi, Simhendra madhyama, Chitrāmbari and Jyotisvarupini, the first component letter of the concerned conjunct consonant has to be taken (as shown in the following table), in order that the application of the katapayādi formula might give the correct number.

Thus these mela names constitute an exception to the katapayadi rule.

Name of the melakarta		Num	ber.	Number after reversal.
Cha	k ra vāka	6	1	16
Di	v ya mani	8	4	48
Vi	svam bhari	4	5	54
Šya	m a lāngi	5	5	55
Si	mhe ndra madhyama	7	5	57
Chi	t rā mbari	6	6	66
Jyo	ti svarupini	8	6	68

The katapayādi prefixes are the key syllables for determining the serial numbers of melas. They are also called the sankhyāksharas.

The katapayādi formula does not apply to the names of janya ragas.

A separate nomenelature for the 35 suladi talas, answering to the katapayādi formula also exists. The Trisra, Chaturasra, Khanda, Misra and Sankirna varieties of the Dhruva tala, for examples, bear the names: pika, vati, saka, lara and dhāra. These names by the application of the katapayādi formula yield the numbers 11, 14, 17, 23 and 29 which respectively denote the aksharakāla value of an āvarta each of the concerned tālas.

In the Telugu work, Sangita sāra sangrahamu of Tiruvenkata Kavi, written sometime after the Sangraha chudāmani, names answering to the katapayādi formula are given for the twenty-four srutis used in an octave thus:—

yina (1), rāna (2), līna (3), ghana (4), mana (5), tanu (6), sena (7), dāna (8), dhana (9), naya (10), paya (11), thāya (12), loka (13), vaya (14), suka (15), toya (16), chhāya (17), jaya (18) dheya (19), nara (20), kara (21), khara (22), giri (23) and vira (24). Thus the name of the sruti itself gives the clue to its pitch and position in the octave.

Historical.

As already mentioned there are two nomenclatures for the 72 melas: (1) the well-known Kanakāngi - Ratnāngi nomenclature and (2) the Kanakāmbari - Phenadyuti nomenclature. The former nomenclature was followed by Tyagaraja and other composers. This is the nomenclature figuring, in the immortal composition "The 72 Melarāgamālika" of Maha Vaidyanatha Iyer. The other nomenclature, though popularly known as Venkatamakhi's, is, as subsequent researches have shown, not his. In his Chaturdandi Prakāsika, the illustrious author merely explains the scheme of 72 melas, and does not attempt a nomenclature for them.

It is but natural that he should have refrained from attempting a nomenclature inasmuch as he visualized only the remote possibilities of a good number of his melas. He mentioned the serial numbers in his scheme for the wellknown 19 melas of his time. In the raga chapter, he has allocated the janaka melas for the various janya ragas. He mentions Ritigaula as a janya of the 20th mela Bhairavi, and Kedaragaula as a janya of the 28th mela Kambhoji. Venkatamakhi's mela names do not have the katapayadi prefixes. A good number of his melas are not kramasampurna in the ascent and descent, and some of them like the Bhupala mela (8th), are even transilient scales. He merely named a mela from a wellknown janya raga derived from it.

A later scholar taking this clue, enunciated the Kanakambari-Phenadyuti nomenclature for the 72 melas. This nomenclature may be styled the earlier Kanakambari nomenclature, and is given in the work Sanaraha Chudamani (18th cent). The author of this nomenclature did not evidently bother about the katapayadi prefixes for the mela names. In some cases the mela names themselves, accidentally conformed to the katapayadi requirements and gave the correct serial numbers. As examples may be mentioned Kanakāmbari (1), Phenadyuti (2), Bhānumati (4), Viravasantam (24), Raghulila (42) and Simantini (57). There are many mela names like Sāma-varāli (3), Todi (8), Hejjujji (13), Vasantabhairavi (14), Vegavāhini (16), Suddha mālavi (18), Velāvali (23), Sāmantam (30), Chhāyānāta (34), Varāli (39), Pantuvarāli (45), Rāmakriya (51) and Simharavam (58), which, by the application of the katapayadi formula, will give numbers different from those given within brackets against the concerned melas. Rightly enough, he has re-christened some of the melas of Venkatamakhi with better and more appropriate raga names. Thus the Bhupāla mela (8), Gaula mela (15) and Ahiri mela (21) were re-named Todi mela, Mālavagaula mela and Kiranāvali mela. He realized the unwisdom in naming a mela after an audava raga like Bhupāla. Bhairavi and Kambhoji however continued as melas in this scheme.

The Kanakānai - Ratnānai nomenclature then came into existence. It stuck to the rule that a mela should have a krama - sampurna arohana and avarohana and also that each svara should retain its identical character in both the ascent and descent. This concept of a mela maintains intact the timehonoured distinction between a scale and a raga, already rooted in the concepts, murchhana and jāti; pālai and pan. This nomenclature which had the added merit of conforming to the katapavadi formula was since accepted by all lakshanakāras as sound and has come to stay. It should be noted that Harikāmbhoji mela and Harikāmbhoji raga are two distinct entities. The former is the mere bony stuff, while the latter is the full-fledged raga, shining in all its life, flesh, blood and melodic beauty. For the sake of easy reference, the Kanakangi - Ratnangi system is referred to as the sampurna mela paddhati and the Kanakambari - Phenadyuti system as the asampurna mela paddhati.

A later scholar, profiting by the merits of the Kanakangi nomenclature, tried to introduce improvements in the earlier Kanakambari nomenclature. In order to get the correct serial numbers, katapayadi prefixes were introduced for all those mela names which needed them. As examples may be mentioned, $G\bar{a}na$ samavarali (3), Janatcdi (8), Dhunibhinnashadjam (9), Geyahejjujji (13), $V\bar{a}tivasantabhairavi$ (14), Toyavegavahini (16), Jayasuddhamālavi (18), Gaurivelāvali (23),

Bhogachhāyānāta (34), Sailadesākshi (35), Dhālivarāli (39), Sivapantuvarāli (45), Kāsirāmakriya (51) and Desisimharavam (58). Some names of the earlier Kanakambari nomenclature were substituted by other names, but the fact remained that many shadava-sampurna, audava-sampurna and vakra sampurna ragas continued as melas. As examples of the changed mela names may be mentioned:

(12) Rupavati which was Raupyanagam in the earlier Kanakambari nomenclature.

(17)	Chhāyāvati	11	Supradipam	"
(20)	Nāriritigaula	,,	Bhairavi	,,
(28)	Harikedāragaula	,,	Kāmbhoji	,,
(30)	Nāgābharanam	,,	Sāmantam	,,
(31)	Kalāvati	,,	Kalahamsa	,,
(37)	Saugandhini	,,	Sālava	,,
(41)	Kumbhini	,,	Prabhāvati	,,
(42)	Ravikriya	,,	Raghulila	1,
(46)	Stavarājam	,,	Tivravāhini	,,
(50)	Nāmadesi	,,	Narmada	,,
(51)	Vamsavati	,,	Vaisākha	,,
(56)	Chāmaram	,,	Trimurti	,,
(57)	Sumadyuti	,,	Simantini	,,
(59)	Dhāmavati	,,	Dhaumyarāgam	,,
(62)	Ratipriya	,,	Ratnabhānu	,,
(63)	Gitapriya	**	Gotrāri	,,
(67)	Santānamanjari	,,	Satyavati	,,
(68)	Jyotirāgam	,,	Jyotishmati	,,
(71)	Kusumākaram		Kusumāvali	

It is clear that this later Kanakambari nomenclature came into existence after the Sangraha Chudamani was written. Since neither of the nomenclatures is referred to in the Sangita Sārāmrīta of Tulaja (1735), it is certain that the earlier Kanakambari nomenclature was conceived sometime after this work was written. The Sangita Saramrīta merely gives the names for 21 melas and even these do not bear katapayādi prefixes.

Curiously enough, the ragas Ritigaula and Kedāragaula, which, Venkatamakhi expressly says, are janyas of the Bhairavi and Kāmbhoji melas respectively, are promoted to the status of melas in the later Kanakāmbari nomenclature, throwing overboard even the author of the earlier Kanakāmbari nomenclature. This was evidently done to replace bhāshānga ragas by upānga ragas.

Excepting the very few krama-sampurna melas, all the rest in the Kanakāmbari nomenclature figure as janya ragas under the respective melas in the Kanakāngi scheme.

The lakshana gita in Gundakriya raga, attributed to Venkatamakhi, gives the later Kanakāmbari nomenclature. From the fact that it mentions 24 srutis towards the close, it is proof positive that the composition is not Venkatamakhi's. Venkatamakhi has emphasised 22 srutis in no uncertain terms. It is true that Subbarama Dikshitar, in his errata to the Sangita Sampradaya Pradarsini mentions that chaturvimsati (24) is a misprint for dvāvimsati. But people familiar with printing know that it is too much to take this as a printing mistake. It is evidently an afterthought of Subbarama Dikshitar, and the correction was introduced to credit the authorship of the gita to Venkatamakhi. (See Pradarsini P. 244.)

The fact that the term rāgānga rāga is not used in the sense of a mela raga by Venkatamakhi is another proof that the Gundakriya lakshana gita cannot be his. He calls many

janya ragas as rāgānga rāgas. He says that Madhyamāvati and Dhanyāsi are ragangas born of Srirāga mela. Since this gita uses the later Kanakāmbari nomenclature, it is certain that this gita must have been written more than a hundred years after Venkatamakhi.

The raganga lakshana gitas based on the later Kanakāmbari nomenclature, are therefore not the compositions of Venkatamakhi. Nevertheless, these compositions are of historical value. The Māyāmālavagaula gita Ravikotiteja in particular, is found in many early 19th century manuscripts.

It is interesting to note that even the later Kanakāmbari nomenclature underwent some changes. In the 72 $R\bar{a}g\bar{a}nga$ $R\bar{a}gam\bar{a}lika$ of Subbarāma Dikshitar and Krishna Kavi (See P. 97 Appendix Pradarsini Vol. II) the following changed names are seen:—

(9) Dhvanibhinnashadjam for Dhunibhinnashadjam.
(14) Vāyuvasantabhairavi for Vativasantabhairavi.
(16) Tapovegavāhini for Toyavegavāhini.
(30) Dhūlivarāli for Dhālivarāli

(39) Dhūlivarāli for Dhālivarāli (65) Matikalyāni for Sāntakalyāni

The weakness of the asampurna mela paddhati lies in the fact that it rules out the possibilities of sampurna-sampurna ragas like Chakravākam, Kharaharapriya and Harikāmbhoji. It will lead to the position that Sriraga being a mela, Kharaharapriya has to be regarded as a super mela! Again if a mela is to be named after a wellknown janya raga generating from it, the problem arises as to which janya raga is to be preferred, since under each mela, more than one prasiddha raga can be thought of.

It may be mentioned in passing that the Sangraha Chudamani mentions the name Narabhairavi for the 20th mela and not Nathabhairavi, which is a change effected later on. At the time the Sangraha Chudamani was written, the Kanakāngi-Ratnāngi nomenclature was the one in use, and it has since been accepted as the authoritative nomenclature, in spite of a later improved Kanakāmbari nomenclature. The Melādhikāra Lakshana also mentions the Kanakāngi nomenclature.

Muthuswamy Dikshitar has adopted the later Kanakambari nomenclature for the most part. The names of some mela ragas appear in his compositions without the katapayadi prefixes; for example, see his Vinā pustaka dhārinim, Nilakantam bhajeham and Swāminatha. In his compositions in the 35th, 50th, 55th, 58th and 68th he adopts the names Sulini, Narmada, Sāmalangi, Haimavati and Jotishmati; and not the names Saila desākshi, Nāmadesi, Sāmala. Desi simhāravam and Joti rāgam (see Sangita Sampradāva Pradarsini Vol. III Pp. 1043, 1111, 1142, 1151 and 1235. Subbarama Dikshitar's note that Simantini is another name for Sumadvuti, and Hemavati is another name for Simhāravam (see ibid pp. 1147 and 1150) are noteworthy. In order to strictly conform to the requirements of the katapavadi formula, the 55th mela was called Samalangi instead of Syāmalāngi.

In view of the fact that all scholars in India as well as of the west have understood the 72 melas as krama-sampurna scales, the asampurna mela paddhati has become a matter of mere local history. The term melakarta implies that it is a karta or parent for janya ragas and hence the asampurna mela paddhati claiming a number of janya ragas as melas is faulty and unsound.

CHAPTER III

Since the raga system forms the foundation of Indian music, every writer of note from Bharata downwards has paid attention to the clear elucidation of this subject. Many writers mention ten lakshanas under which the scope of each raga was defined and studied. The ten lakshanas enumerated however, are not, in all cases identical.

Bharata in his Nātya Sāstra (4th Cent. B.C.) says:-

प्रहांशो तारमन्द्री च न्यासोऽपन्यास एव च । अरुपत्वं च बहुत्वं च षाडवोडुविते तथा ॥

(दशविधजातिलक्षणम्)

Graha, amsa, tāra, mandra, nyāsa, apanyāsa, alpatva, bahutva, shādava and audava are the ten lakshanas of jātis.

Jāti was the term that was used in early times to denote raga. The word raga comes to be used in the musical sense only in the post-Bharata period. Audava is the later form of auduva.

The Sangita Ratnākara (13th cent. A.D.) of Sārngadeva mentions the following thirteen lakshanas:—

महांशतारमन्द्राश्च न्यासापन्यासकीस्तथा। अपि सन्यासविन्यासी बहुत्वं चाल्पता ततः॥ एतान्यन्तरमार्गेण सह रुक्ष्माणि जातिषु। षांडवीडुविते कापीत्येवमाहुस्त्रयोदश॥

Graha, amsa, tāra, mandra, nyāsa, apanyāsa, sanyāsa, vinyāsa, bahutva, alpatva, antara mārga, shādava and audava. The Sangita Sudh \bar{a} (17th cent. A.D.) of Raghunātha Nāik also mentions these thirteen lakshanas:—

रागाणां त्रयोदश लक्षणम्

महाभिधानः प्रथमः परोंऽशस्तारस्तृतीयोऽथ परस्तु मन्द्रः । स्यात्पञ्चमो न्यास इति प्रतीतोऽपन्याससंज्ञां रूभते च षष्टः ॥ सन्यासकः सप्तम एष वैद्यो विन्यासनामा पुनरष्टमः स्यात् । बहुत्वमन्यत्पुनरल्पतान्या त्वेकादशोऽप्यन्तरमार्गनामा ॥ स्यात् द्वादशः षाडवनामधेयस्त्रयोदशः स्यात्पनरौडवास्त्रः॥

Venkatamakhi in his Chaturdandi Prakāsikā says:-

प्रहांशी मन्द्रतारी च न्यासापन्यासकी तथा। अथ सन्यासविन्यासी बहुत्वं चाल्पता तथा ॥

Graha, amsa, mandra, tāra, nyāsa, apanyāsa, sanyāsa, vinyāsa, bahutva, alpatva.

Shadava, audava and antara marga were omitted, because they became separate types of janya ragas.

A few of these lakshanas have either become obsolete or are of mere academic interest at the present day. As a result of the progress made in music during the recent centuries, we are in a position to give a more amplified and scientific description of the ragas and define their scope in clearer and more accurate terms. An analytical study of all the available compositions in a raga not only throws a flood of light on the lakshana of the raga but also helps us to fix its raga ranjaka combinations, its visesha sanchāras, sanchāra kramas, etc. Compositions are after all ragas in a crystalline form.

The lakshana of a raga, at the present day can be studied under the following heads:—

- (1) Whether janaka or janya.
 - If janaka, its serial number in .the scheme of 72 melakartas, and the number and name of the chakra to which it belongs, as also its mnemonics.
- (2) If the two tetrachords of the janaka raga are symmetrical as in the case of Māyāmālavagaula and Kharaharapriya; or if each note of the raga is a samvādi of some other note occurring in the raga, as in the case of Harikāmbhoji.
- (3) If it is a janaka raga claiming a large number of janya ragas.
- (4) If it is a janya raga, the name and serial number of the melakarta from which it is derived.
- (5) Difference of opinion if any, concerning the correct janaka mela of the janya raga and the arguments for and against.
- (6) The ārohana and avarohana of the raga and any difference of opinion concerning the same.

As a rule, in a raga, it is the frequently occurring phrases that are codified and presented in its ārohana and avarohana. Sometimes an alpa prayoga is incorporated in the ārohana and avarohana of a raga in order to indicate its precise janaka mela; examples are Nāta and Srirāga. Rare sanchāras are also sometimes incorporated in the ārohana and avarohana of ragas in order to clearly reveal and establish their melodic individuality.

(7) If the ārohana and avarohana are symmetrical or otherwise.

A raga is said to possess a symmetrical ārohana and avarohana, when the notes that are present in the ascent are also present in the descent. All mela ragas, and shādava and audava ragas like Sriranjani and Mohana may be cited as examples. It may be noted that an audava - audava raga like Mayuradhvani ($s \ r \ m \ p \ n \ s - s \ n \ d \ m \ r \ s - 28$) does not possess a symmetrical ārohana and avarohana; because, pa which is present in the ārohana is absent in the avarohana and its place taken by dha.

Of course, only non-vakra ragas are contemplated in this section.

(8) If dirgha svaras, kampita svaras and janta svaras are present in the ārohana and avarohana.

Such notes, if present, are vital to the entity of the raga. Examples are Manirangu, Begada and Ritigaula.

(9) If the foreign note is incorporated in the ārohana and avarohana. This applies only to bhāshānga ragas.

Bhairavi, Mukhāri and Sāranga are examples of bhāshānga ragas wherein the foreign note is heard while singing the ārohana and avarohana.

- (10) Names of the svaras taken by the raga and their frequencies.
- (11) Varja or non-varja ; if varja, audava, shādava or sampūrna.
- (12) Vakra or non-vakra; if vakra, whether the archana or avarohana or both, are vakra.

The vakra svaras and the vakrantya svaras and the compass of vakratva in each case. Also, if the raga is an ekasvara vakra raga or dvisvara vakra raga or trisvara vakra raga or chatusvara vakra raga.

- N.B.—A vakra ārohana or avarohana does not necessarily imply that a svara is repeated in the course of its progression: For example in the ārohana of Katana kutuhalam ($s\ r\ m\ D\ n\ g\ p\ s$), there is no repetition, whereas in the ārohana of Ananda bhairavi ($s\ g\ r\ g\ m\ p\ d\ p\ s$), the gāndhāra and panchama repeat.
- (13) In the case of ubhaya vakra ragas, if the number of vakra svaras in the ārohana and avarohana is equal or otherwise. For example, in Nīlāmbari, the ārohana and avarohana have each one vakra svara; but in Sahana, the ārohana has one vakra svara and the avarohana two vakra svaras.
 - (14) Nishādāntya, Dhaivatāntya or Panchamāntya.
- (15) Upānga or bhāshānga. If the latter, the accidental note or notes met with, and the sanchāras wherein they figure.

Also if it is an ekānya svara bhāshānga raga or dvianya svara bhāshānga raga or tri-anya svara bhāshānga raga; and if the anya svara and the svakiya svara are of equal status and importance, as in Bhairavi and Athāna.

(16) Jiva (amsa or raga chhāyā) svaras.

There are instances of ragas like Yadukulakāmbhoji and Nādanāmakriya, which have different jiva svaras in their ārohana and avarohana.

(17) Nyāsa svaras.

The notes which are major nyāsas and notes which are

minor nyāsas in the raga. Some ragas have alpa nyāsas; as for instance, the panchama in Nātakuranji.

(18) The resting notes round which one can weave an ālāpana.

Every note round which an alapana can be developed will be a nyasa svara; but the converse need not necessarily be true. For example, in Athana, dha is a nyasa svara but not a note on which one can rest and weave round an alapana. The kaisiki ni of Anandabhairavi is another similar case, Ga in Sankarabharana is both a nyasa svara and a note round which one can develop an alapana. Resting notes are stable notes and admit of plain utterances.

(19) Raga ranjaka combinations—phrases or sanchāras or pidippus — பிடிப்புகள்; catches; pakad in Hindusthāni music.

Example. d p G; p G; R s in Manji.

(20) Visesha sanchāras (i.e., combinations not in accordance with the raga's ārohana and avarohana krama) that the rāga admits of

In every raga, phrases either covered by its ārohana and avarohana or implied in the same, can validly come. In a few ragas, phrases which are not in accordance with the ārohana and avarohana krama come in, to enrich the beauty of the raga. Such phrases are known as visesha sanchāras.

Examples. s n p and s d p of Sankarābharana and p n s D p of Dhanyāsī.

(21) If the raga belongs to any group like ghana-panchaka,

(22) The slight or passing touch of a note, if any.

Such notes will not occur as long notes and they will be just touched in passing; for example the ga in the phrase M, g r s R of Arabhi. Such notes are alpa svaras and can neither be emphasised nor made nyāsa as a rule.

- (23) The janta svara and the datu svara prayogas that the raga admits of.
- (24) The characteristic srutis that suggest the melodic entity, individuality and colour of the raga.
 - (25) If there are any phrases, wherein a note occasionally deviates form its pitch and is rendered either slightly sharp or flat. For example, the notes ma and ga in the phrases D m d n S in Todi, and g g r s in Surati respectively.
 - (26) If a sarva svara gamaka varika raga or otherwise.
 - (27) Kampita svaras of the raga and also the intensity, compass and speed of their shake.

The compass of the shake of sadharana ga, in Sriraga and Anandabhairavi are different.

(28) The characteristic gamakas that bring out the svarupa of the raga.

There are instances of ragas wherein a note is subject to one variety of gamaka in the ārohana and a different variety of gamaka in the avarohana; for example in Nāta raga, the rishabha in the ārohana is subject to nokku or stress and the same note in the avarohana is subject to kampita or shake.

- (29) Ghana, naya (rakti) or desya raga.
- (30) Suddha, chhāyālaga or sankīrna raga.
- (31) Within the range of the three sthayis, the highest and the lowest notes if any, beyond which the raga sanchara cannot extend.

The idea in prescribing the upper and lower limits in the sthayi for some ragas is to maintain intact their melodic individuality. This is done to prevent the suggestion of other ragas even in a remote manner. The appropriateness of this will be realised from experience. For example Khamās and Anandabhairavi which have no sanchāra below the mandra sthāyi nishāda; and Sūranga and Pantuvarāli which have no sanchāra above the tara sthāyi gāndhāra.

- (32) If the raga is a Karnataka raga or a Desya raga.
- (33) Major raga or a minor raga.

A raga which admits of a detailed ālāpana is a major raga and is useful as a pallavi raga in concerts. As examples of ragas which admit of an extensive and intensive ālāpana may be mentioned, Todi, Sāveri, Bhairavi, Kāmbhoji, Sankarābharana and Kalyāni.

(34) Phrases which have to be used sparingly in a raga.

The undue repetition of an alpa or *kvachit* prayoga will result in abhāva and consequent loss of melodic individuality.

(35) The rasas; i.e., the feelings that the raga is capable of arousing in us.

If the raga is capable of portraying feelings like joy, sadness, courage, fear, disgust, compassion, love, wonder, pity, mirth, pathos, anger, heroism, mystery, pleading, repentance, tenderness (vātsalya), devotion, loneliness, forest life (detachment from the crowd), communion with nature and tranquillity.

- (36) If the raga is an auspicious one and hence useful for composing a mangalam.
- (37) If the raga is useful for singing themes relating to varnana or description.

For example, Dhanyāsi, Kedāragaula and Surati are useful for varnana.

- (38) The curative effects of the raga.
- (39) The extent of its use in the spheres of art music and applied music.

Ragas of pronounced rasas like Ahiri are used in operas and ragas like Kedāragaula figure largely in Purāna patanam and religious discourses. Ragas like Sahāna and Nādanāmakriya figure in nāmāvālis. Nilāmbari and Anandabhairavi figure in lullabies. Saindhavi, Punnāgavarāli, Kuranji and Navaroj figure in marriage songs and folk melodies.

- (40) Whether the raga derives its characteristic individuality by *chauka kāla* sanchāras or by *modhyamo kāla* sanchāras.
- N. B.—As a rule, all the ragas admit of both chauka kāla and madhyama kāla sanchāras. But this section is intended to cover cases like (1) Arabhi, which shines more by its madhyama kāla sanchāras and (2) Devagāndhāri which shines more by its chauka kāla sanchāras.

(41) If the raga is a popular raga or a scholarly raga.

Mohana and Anandabhairavi are popular ragas; but Nārāyanagaula and Mānji for example are scholarly ragas.

- (42) If the raga is a prasiddha (wellknown) raga or an apurva (rare) raga.
 - (43) Closely allied ragas, if any.

Bhairavi and Mānji are closely allied ragas; likewise are Darbār and Nāyaki; Bilaḥari and Desākshi; Mukhāri and Sālagabhairavi. It must be noted that each raga of the pair, has however a separate melodic individuality.

- (44) Its distribution amongst musical compositions.
- (45) The time of the day or night and the season best suited for singing the raga.

Some ragas are amenable to the time theory.

(46) The svaras which are recognised as appropriate for commencing melodies in this raga.

Such notes are generally notes common to both the archana and avarohana.

(47) If there are tunes in the raga, known by specific names.

Anandakalippu, Pancha chāmaram, Mattakokilam and Kappal are all names indicating particular tunes. At a time when the practice of writing songs in notation was not extensively cultivated, it was found useful to refer to wellknown tunes by specific names.

(48) Important ragas if any, that result by the application of the process of modal shift of tonic to this raga.

For example, Mohana's ri as sa gives Madhyamāvati and its pa as sa gives Suddha sāveri and so on.

(49) Current raga or obsolete raga.

Ragas like Mohana and Bhairavi are current ragas; while, ragas like Kondamalahari and Mukhāripantu were in vogue in the 15th century and are now obsolete.

(50) Any story, anecdote or tradition concerning the raga.

For example, the adi Nāta - antya Surata tradition i.e., a concert should be commenced with Nāta raga and concluded with Surati raga.

(51) Pictorial representation of the raga, if any.

The pictures of ragas and raginis communicate in a visual manner, the power or the emotional aspects of ragas.

The svara graph and the svarasthana graph of a raga's archana and avarohana reveal the contour of the raga and the symmetrical or non-symmetrical structure of its archana and avarohana.

A rāga is said to possess a symmetrical ārohana and avarohana, when the number of svaras present in its ascent and descent is equal. Such ragas have identical svaras in the ascent and descent as in Hamsadhvani (srgpns-snpgns-s

(52) If the raga and melodies in it can be sung or played in the madhyama sruti.

Ragas like Punnāgavarāli, Nādanāmakriya, Jhanjhuti, Kuranji and Navaroj, wherein the highest note touched is a note below the tāra shadja, are examples.

- (53) If slokas, padyas and viruttams can be sung in the raga.
- (54) If the raga can figure aptly in a series of kalpana svaras in the rāgamālika section of a Pallavi.
- (55) If the raga is present in other systems of music, including ancient Tamil music; if so, the names by which it is known in those systems.

Abheri for example corresponds to the Bhimpalās of Hindusthāni music; Kīravāni corresponds to the harmonic minor scale of European music; the Tamil pan Kausikam corresponds to Bhairavi and so on

(56) Names of prominent musicians who have made this raga, the subject of their exclusive study, practice and research and who have been honoured with the name of the raga itself as a mark of recognition.

(57) History of the raga.

Changes in the name of the raga and changes in its lakshana if any. For example Nādarāmakriya and Madhyamādi are earlier names for Nādanāmakriya and Madhyamāvati. The introduction of dha in Sriraga is a later development. Mālavagaula was mentioned as the janaka mela for Vasanta and Saurāshtra at a time when the scheme of 72 melas had not been evolved. Suryakāntam will now be their correct janaka mela.

- (58) The classical works on music in which this raga is referred to and the earliest composer to compose in this raga.
- (59) If the name of the raga stands for or conveys, some other musical idea or concept.

Vasanta for example is the name of a raga and is also the name of a tala in the scheme of 108 talas.

(60) Significant meanings if any, attached to the name of the raga.

For instance, the name Athāna (a+thāna) is interpreted as meaning a raga which frees one from bondage *i.e.*, confers freedom from life and death. The raga Sri was given that name by pūrvāchāryas, because it took the notes of the sāma gāna scale and was hence auspicious and free from doshas. The song Sri Kamalāmbike in this raga, is appropriately sung as a mangalam in the Dikshitar school. Concerts can be concluded with Sriraga or Madhyamāvati.

South Indian Music is one and indivisible. The ragas form the fountain source for all melodies. The above-mentioned 60 points help one to get a true and a complete picture of a raga covering its scientific, cultural and historical aspects. No study of a raga is complete without a study of some of the brilliant lakshyas or compositions in it. Classical compositions present all the quintessential aspects of ragas and constitute ideal stepping stones to the attainment of $r\bar{a}ga~jn\bar{a}na$, the ultimate aim of all musical studies. Since each composition delineates a particular aspect of the raga, the importance of the study of a good number of classical compositions in it, needs no emphasis.

CHAPTER IV

TALA.

175 TALAS.

The function of rhythm in a musical composition is to maintain the balance of its music. Just as a minimum of three straight lines is required to enclose a space, and just as at least five notes are required to constitute a raga, a minimum of three aksharakālas is necessary to constitute a tāla. Thus trisra jāti eka tala is the shortest time-measure that can be thought of.

The famous aphorism, श्रीतमीता लय:पिता,

(sruti is the mother and laya is the father) emphasises the importance of singing to accurate sruti and accurate time. Sruti suddha and laya suddha are two of the fundamental requisites of all good music.

It was pointed out in Chapter III of the preceding volume of this series, that the seven principal tālas give rise to the 35 varieties on account of the panchet $j\bar{a}ti$ bhedas (the five kinds of the laghu).

Each of these 35 tālas again gives rise to five varieties on account of the gati bheda or the change of the gati. Thus we have in all $35 \times 5 = 175$ talas. Even as there are the $pancha\ jāti\ bhedas$, there are also the $pancha\ gati$ bhedas. Therefore each of the sapta talas comes to admit of 25 varieties on account of the $pancha\ jāti\ gati\ bhedas$. When not otherwise mentioned, the presumption with regard to a tala is, that it is in the chaturasra gati. The change of jāti applies only to the laghu but the change of gati applies to all the angas in a tala.

Table VII The Tala (gati bheda) chart (A)

showing how each of the sapta tālas comes to admit of 25 varieties on account of the change of gati. (Rupaka tala is taken as an example and worked out here)

The resulting Constituent total minor angas and units of time Gati bheda. Jāti. the total for an avarta on aksharakālas account of the for an āvarta change of gati. $5 \times 3 = 15$ Trisra $5 \times 4 = 20$ Chaturasra 3 = 5 { Khanda Misra $5 \times 5 = 25$ Trisra $5 \times 7 = 35$ $5 \times 9 = 45$ Sankirna $6 \times 3 = 18$ Trisra Chaturasra $6 \times 4 = 24$ $6 \times 5 = 30$ Khanda Chaturasra $6 \times 7 = 42$ $6 \times 9 = 54$ $7 \times 3 = 21$ $7 \times 4 = 28$ $7 \times 5 = 35$ Khanda $7 \times 7 = 49$ $7 \times 9 = 63$ $9 \times 3 = 27$ $9 \times 4 = 36$ Chaturasra 7 = 9 ₹ Khanda $9 \times 5 = 45$ Misra. $9 \times 7 = 63$ $9 \times 9 = 81$ Trisra $11 \times 3 = 33$ $11 \times 4 = 44$ Chaturasra o = 11 ≺ Khanda $11 \times 5 = 55$ Sankirna

In the same manner, the remaining six talas also admit of 25 varieties each.

Misra Sankirna $11 \times 7 = 77$

 $11 \times 9 = 99$

Table VIII

Showing how the 35 suladi talas give rise to the 175 varieties, on account of the gati bhedas. The Tala (gati bheda) chart (B)

scheme of numbers the 175 35 40 50 50 in the talas. 55 55 55 55 55 55 55 Serial I I ١ 16 31 36 41 46 51 56 61 66 71 Sankirna Change of gati and the resulting number of gati. 99 126 153 207 261 45 54 63 81 99 minor units for an avarta in each case. Misra gati. 77 98 119 161 203 56 57 57 54 57 54 54 54 35 42 42 63 77 Khanda gati. 55 70 85 115 145 42888 25 35 35 55 55 rasra gati Chatu-44 56 68 92 116 32 40 40 84 80 80 Tisra gati. 15 18 21 27 33 33 442 51 69 87 kālas for an avarta akshara-Total 14 17 23 29 82228 81218 Chaturasra Chaturasra Chaturagra Jāti. Sankirna Sankirna Sankirna Khanda Khanda Khanda Trisra Trisra Misra Misra Trigra Misra 35 talas tpe to тре асреше uı 101004 122543 namper Serial Dhruva. Tala. Matya. Кйрака

76-80 81-85 86-90 91-95 96-100	101—105 106—110 111—115 116—120 121—125	126 - 130 $131 - 135 $ $136 - 140 $ $141 - 145 $ $146 - 150$	151—155 156—160 161—165 166—170 171—175
54 63 72 90 108	63 72 81 99 117	90 108 126 162 198	27 36 45 63 81
42 49 70 84	49 56 63 91	70 84 98 126 154	21 28 35 49 63
30 30 30 60 60 60	35 40 55 55	50 60 70 90	15 20 25 35 45
48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28 32 36 52 52	40 56 72 88	112 16 28 36
18 21 24 30 36	21 27 33 39	30 42 54 66	9 12 21 27
6 10 12 12 12 12 12 12 12 12 12 12 12 12 12	7 8 9 111 133	10 12 14 18 22	84000
Trisra Chaturasra Khanda Misra Sankirna	Trisra Chaturasra Khanda Misra Sankirna	Trisra Chaturasra Khanda Misra Sankirna	Trisra Chaturasra Khanda Misra Sankirna
16 17 18 19 20	22 23 24 25	26 28 29 30	31 32 34 35
Jhampa.	Triputs.	.stA	Eks.

Chapu tala

The Chāpu tāla is one of the time-measures used in Indian music from very early times. There are many folk melodies in this tala. It is a syncopated time-measure and is counted with two beats. Sometimes for the sake of convenience, instead of two beats, it is reckoned with a beat and a visarjita.

There are four varieties of the Chapu tala:-

- Misra chāpu (3+4≈7) where the first beat has a duration of three units of time and the second four.
- (2) Khanda chāpu, (2+3=5) where the duration of the first beat is two units of time and the second three.
- (3) Tisra chāpu (1+2≈3) where the duration of the first beat is one unit time and the second two.
- (4) The Sankirna chāpu (4+5≈9) where the duration of the first beat is four units and the second five. This tala is rather an uncommon variety and figures in some pallavis.

When merely the term chāpu tala is mentioned on the top of a piece, the presumption is that it is misra chāpu. Other varieties like khauda chāpu etc. have to be specifically mentioned as such.

Desadi, Madhyadi talas

The Desādi and Madhyādi talas consist of 4 counts each, for an āvarta and are reckoned with a visarjita (wave of the hand) and three beats. Whereas in pieces in the Desādi tala

the music commences in the visarjita after the lapse of $\frac{3}{4}$ akskarakāla, in the pieces in Madhyādi tāla, the music commences after the lapse of $\frac{1}{2}$ an aksharakāla. In other words, at the very commencement, there is a period of rest (visrānti) of $\frac{3}{4}$ and $\frac{1}{2}$ unit time respectively in the pieces in these two talas. It is also customary to reckon the rhythm of the pieces in these two talas after the manner of the ādi tala and the music in such cases starts immediately after these periods of rest from corresponding points in the āvarta. These two time-measures are a recent introduction into South Indian Music and Tyāgarāja is the first great composer to compose kritis in these talas and show their great possibilities.

The pieces, Enta vedukondu Rāghava (Sarasvati manohari), Bhuvini dāsudane (Sriranjani), Sitāpate (Khamās) and Raghunāyaka (Hamsadhvani) are examples of compositions in Desādi tala. The pieces: Nāmakusumamula (Srirāga), Meru samāna (Māyāmālavagaula), Enduku nirdaya (Harikāmbhoji) and Rāga sudhārasa (Mayūradhvani) are examples of compositions in Madhyādi tāla.

Dhruva rupaka is a mixed time-measure. A composition in this tāla, as also the sections of a composition in this time-measure start with two drutas and two laghus and are then followed by the rupaka tāla āvartas. The gita Areyānaka in Nāta is a wellknown composition in this tala.

The sulādi tarangas of Narayana Tirtha in the sapta tālas and the sapta tāla gità "Gāna vidya dhurandhara" in Nāta rāga are compositions of special interest from the rhythmic point of view. The latter piece is set in Dhruva tāla but its musical construction admits of being reckoned in the other aix sulādi tālas as well without detriment to general effect.

The length of the composition is 30 āvartas (420 aksharakālas) of Dhruva tāla. As one sings it, reckoning the Dhruva tāla, six other persons can start simultaneously counting each, one of the other sulādi talas. At the conclusion of the gita, it will be found that all the seven persons finish their āvartas completely,

the person counting the Dhruva tala executing 30 avartas

,,	Matya	tāla	"	42	,,	
,,	Rupaka	tāla	,,	70	,,	
,,	Jhampa	tāla	,,	42	,,	
,,	Triputa	tāla	,,,	60	,,	
,,	Ata	$t\bar{a}la$	"	30	,,	
,,	\mathbf{E} ka	tāla	,,	105	,,	

 $Kuru\ jhampe$ is a folk time-measure. It consists of a drutam, a khanda laghu and a Tisra laghu O | s | 3 Avarta = 10 aksharakālas. There are $jakkini\ darus$ in this type of tāla.

Tala dasa pranas.

The subject of tāla dasa prānas deals with the analytical study of rhythm in all its aspects. Some of the prānas are of mere academic interest. The ten elements (dasa prānas) of musical time are:— kāla, marga, kriya, anga, graha, jāti, kala, laya, yati and prastāra.

कारुो मार्गः कियांगानि प्रहोजातिः कळारुयः । यतिः प्रस्तारकंचेति ताळपाणादशस्मृताः ॥

Of these, the first five are referred to as the $mah\bar{a}$ $pr\bar{a}nas$ or main elements and the rest as upa $pr\bar{a}nas$ or secondary elements. The more important of the dasa pranas are treated of here. The rest are dealt with in the next volume of this Series.

Kriya is the manner of counting time. It is the kriya, that indicates the constituent angas of a tala. The beat of the hand, the visarjita and the finger counts are different kinds of kriyas.

Kriyas are of two kinds:-

- (1) Sasabda kriya (মহাত্র্কিয়া), i.e., execution accompanied with sound, as in the clapping of hands or in the beating of the right hand on the right thigh and cauterization.
- (2) Nissabda kriya (নিহয়ত্রফিয়া) i.e. soundless execution as in finger-counts, visarjita, krishya, sarpini, patākam etc.

Sasabda kriya is seen in anudrutam, which is reckoned with a beat. In the drutam, we have both the sasabda (beat) and the nissabda (visarjita) kriyas. In the laghu also we have the two kriyas represented.

Anga. Angas are the constituent parts or the limbs of a tāla. Excepting the Eka tāla, all the other talas consist of a plurality of angas. There are the shadangas (six angas) anudruta, druta, laghu, guru, pluta and kākapāda.

अनुदुतो द्रुतश्चेव रुघुर्गुरुः प्ट्रुतस्तथा। काकपादं तथा घोक्तं ताळांगमिति पड्विधम्॥

The symbols for these angas, their values and their mode of execution are given in detail in Chapter II of Book I of this Series. The sulādi sapta talas take only the anudruta, druta and laghu. The shadangas figure in the scheme of the classical 108 talas. Of the sulādi tālas, the Dhruva tala and the Ata tala have four angas each; the Matya, Jhampa and

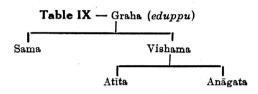
Triputa tālas, have three angas each; Rupaka, two angas and Eka tala only one anga. Three of the sapta tālas (Dhruva, Rupaka and Ata) possess an even number of angas; the rest (Matya, Jhampa, Triputa and Eka) possess an odd number of angas.

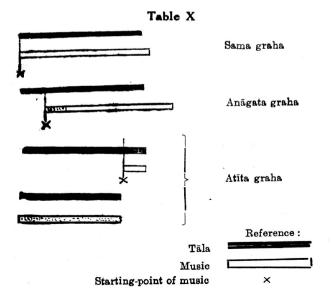
Graha. The place of commencement of music in the tāla āvarta, is known as the graha — எ@ப்பு or ఎత్తుకు. The graha is sama when the music commences along with the tala and vishama if otherwise.

Vishama graha is of two kinds: Atita and Anāgata.

It is atita when the music commences before the tala and anagata when it commences after the tala. Gitas and tāna varnas in ādi tala furnish instances of compositions beginning on sama graha. The pallavi, anupallavi and charana of ata tala varnas, and kritis like Svara raga sudhārasa furnish instances of anāgata grahas. Since there should be a reasonable measure of time between the padagarbham and the eduppu, the upper limit of the anagata graha will be two counts in ādi tala compositions and pallavis. Instances of atita graha are comparatively rare. Atita grahas are met with in the classical pallavis. The anupallavi of the kriti Venugāna loluni in Kedāragaula and the anupallavi of the kriti Kshinamai tiruga in Mukhāri furnish good examples of atita grahas. In atita graha compositions, the music commences at the end of a (presumed) previous avarta. The atita graha is resorted to in order to suit the exigencies of prosody. In the case of compositions in anagata and atita grahas, we always precisely indicate the point of commencement of music by stating at the top. number of aksharakālas or fraction of an aksharakāla, the starting-point is removed from the commencement of the tala. Sārngadeva, in the Sangita Rotnākara, says:— समोऽतीतोऽनागतश्च ग्रहस्ताळे त्रिधा मतः॥

Tables IX and X explain these three types of grahas:-





Jāti There are the five jātis: tisra, chaturasra, khanda, misra and sankirna.

Laya is tempo, speed or kāla pramāna. Three degrees of speed are recognised for all practical purposes:—

Vilambita laya (slow),

Madhya laya (medium) and

Druta laya (quick).

Intermediate gradations of speed under each of these degrees are also recognised. In the increasing order of quickness they are:

	,	- 3	
I			
	(a) Vilambita	— Vilambita	
	(b) "	— Madhya	
	(e) "	— Druta	
II			
	(a) Madhya	- Vilambita	
	(b) ;,	— Madhya	
	(c) "	— Druta	
III			
	(a) Druta	— Vilambita	
	(b) "	— Madhya	
	(c)	- Druta	

Mode of Reckoning Time

Two kinds of units are used in reckoning musical time. One is the akshara and the other, the mātra. The former is equivalent to the anudruta and the latter to the laghu (chaturasra type). The mode of reckoning by aksharas is seen in the compositions belonging to the 35 talas (employing laghu jātis). Reckoning by mātras is seen in more difficult and high class music as in the classical 108 tālas (without jātis) and a few other terse time-measures. The table below gives the relative values of the shadangas in aksharas and mātras:—

Table XI

Name of the anga.	Aksharas	Mātras.
Anudruta	1	1/4
Druta	2	1/2
Laghu	4	1
Guru	8	2
Pluta	12	3
Kākapāda	16 •	4

There are also the shodasāngas or sixteen angas beginning with the anudrutam and ending with the kākapādam.

Table XII (Shodasangas).

Joseph Co.	Duration.		
Name.	In aksharakāla	In mātra	
Anudruta	1	1	
Druta	2	1/2	
Druta virāma	3	34	
Laghu	4	1	
Laghu virāma	6 5	11	
Laghudruta	6	$1\frac{1}{2}$	
Laghudruta virāma	7	13	
Guru	8	2	
Guru virām a	9	21	
Gurudruta	10	21/2	
Gurudruta virāma	11	23	
Pluta	12	3	
Pluta virāma	13	31	
Plutadruta	14	3½	
Plutadruta virāma	15	33	
Kākapāda •	16	4	

Reckoning by sarva laghu means, reckoning time evenly with beats, the duration of each beat being equal to four units of time.



A musical composition presents a concrete picture of a raga. The jurisdiction of a composer is essentially sangita kavitvam and not sāhitya kavitvam. When the composer happens to be also a poet as in the case of Tyāgarāja, we have the happy coincidence of beautiful music coupled with poetic thoughts. Words are used in poetry for their sense; in musical compositions they are used for both their sense and sound. The claim of a musical composition to permanence lies primarily in its musical setting. In every musical composition the syllables of the sāhitya should beautifully blend with the dhātu.

The lakshana of a musical form can be studied under the following heads:—

- Whether the form belongs to the sphere of abhyāsa gāna (vocalises) or sabhā gāna (concert pieces).
- Whether it is a rhythmical form or a non-rhythmical form.

Non-rhythmical forms are forms like chūrnikās and dandakas which are not set to any specific tāla.

 Whether the form has to be in a specific tempo.
 For instance, padas have to be in slow time and tana varnas in medium tempo; kritis may be in slow tempo or medium tempo.

Also the talas in which the form is found.

4. Whether the form admits of a matu (sahitya) or is sung merely as a solfeggio.

For example, the jatisvaram has no sāhitya and is merely sung to solfa syllables.

- Its constituent angas inclusive of essential and non-essential angas.
- Its gana krama i.c. the order in which the several sections have to be sung.
- Rules if any relating to the graha of the piece and the graha of its component angas.

For example gitas have to be in sama graha; but in a kriti, the eduppu of the pallavi, andpallavi and charana may be identical or different.

- 8. The theme of the sahitya.
- If the musical structure of the form admits of apt themes for developing niraval and kalpana svaras.

For instance, kritis contain themes fit for niraval and kalpana svaras, but not forms like gitas, padas and tillānas.

- 10. If the form has a number of examples or only a few. There are thousands of kritis and kirtanas whereas there are only a few rāgamālikas.
- 11. The value of the form as an authoritative lakshya.

Forms like kritis, tāna varnas, sanchāri gitas and lakshana gitas can be 'quoted as authoritative lakshyas in support of the admissibility or otherwise of particular prayogas in ragas.

12. In musical forms with plural charanas, whether all the charanas have necessarily to be sung or some of them can be optionally sung.

In svarajatis, rāgamālikas, kritis with charanas of different dhātus and Tyāgarāja's pancharatnas all the charanas have to be sung. In divyanāma kirtanas all the charanas have to be sung because of their sacred value.

Individual compositions under each form can be critically studied under the following heads:—

- 1. The raga, tala, marga and tempo of the composition.
- 2. Its design, construction and style.
- 3. The commencing notes of its pallavi, anupallavi and charana.

The commencing note of the pallavi and the commencing note of the anupallavi usually bear one or other of the following relationships:—

- (a) They may be sama svaras (identical notes) (Ex. Nādopāsana—Begada).
- (b) They may be an octave apart (Ex. Janani ninnu vina-Ritigaula).
- (c) They may have the shadja-panchama bhāva. (Ex. Chakkani rāja—Kharaharapriya).
- (d) They may have the shadja-madhyama bhāva (Ex. Mariyādagādura—Sankarābharana.
- 4. The number of avartas and padas of each section-

- 5. Technical and literary beauties figuring in the composition.
- 6. The number of sangatis in each section and the beauty underlying their sequence.
- 7. Themes in the composition suitable for developing niraval and kalpana svaras.
- 8. Places in the composition where one can suitably halt.
- 9. Readings and changed versions of the dhatu, if any.
- Any liberties taken with grammar (of language or raga). Faulty idioms if any in the Sāhitya.
- 11. Gamakas figuring in the piece.
- 12. The compass of the piece.
- 13. Scholarly piece or a popular piece.
- The entertainment value of the piece and its value as an important lakshya.
- Circumstances if any, that occasioned the composition.
- If the composition is a separate piece or belongs to a group like the Pancharatna, Navaratnamālika etc.
- 17. If the composition is a kriti with plural charanas, the particular charana that is usually sung and the reason for the preference.
- 18. Prosodical beauties, if any.
- If it is a frequently performed piece or a rarely performed piece,

20. Prominent musicians if any, who specialised in the piece and brought it to lime-light.

The points of distinction between an ordinary gita and a lakshana gita have been already referred to (see Book II Chapter IV). We shall now take up the study of the structure and arrangement of the $r\bar{a}g\bar{a}nga\ lakshana\ gitas$.

These gitas generally consist of three sections or khandas: sutra khanda, upānga khanda and bhāshānga khanda. In the sutra khanda, the initial syllables of the sāhityas of the āvartas give the clue to the kinds of svaras taken by the mela.

For example, the initial syllables of the first section of the Māyāmālavagaula lakshana gita (see post) are:—
ra gu ma pa dha nu. From this one is able to infer that the suddha rishabha, antara gāndhāra, suddha madhyama, suddha dhaivata, and kākali nishāda, (besides sa and pa) are the notes taken by this raga. Further the phrase Agni-go chakra (अभि गो चक्र) gives the clue to the fact that it is the 3rd raga in the Agni or the III chakra i.e., its serial number is 15. The next two sections of the gita respectively give the list of upānga ragas and bhāshānga rāgas derived from this melakarta. This codified list of rāgas is of great use in determining the history of rāgas. Some rāgas figuring in the upānga list have since become bhāshānga. Again, a few rāgas mentioned in these gitas are not now current. Hence the historical value of these rāgānga lakshana gitas.

Lakshana gitas relating to rāgānga ragas, which do not claim an appreciable number of janya ragas, do not have

these three sections. Their musical structure is after the manner of the ordinary gita. The mnemonics for the suddhavikrta svaras as also the mela mnemonics however figure therein.

Since ragas not mentioned in the Chaturdandi prakāsika figure in these rāgānga lakshana gitas, it is certain that these gitas are the compositions of a later composer and not those of Venkatamakhi.

There are lakshana gitas for all the current 72 mela ragas (Kanakāngi-Ratnāngi series) and these are printed in the Gānendu Sekharam of Tachchur Singarāchārlu and in the Sangraha Chudāmani. The older confusing nomenclature of panchasruti rishabha and panchasruti dhaivata has rightly been replaced by the correct and self-explanatory names, chatusruti rishabha and chatusruti dhaivata in these gitas. The values of shatsruti rishabha and shatsruti dhaivata being what they are, the terms panchasruti rishabha and panchasruti dhaivata speaking correctly and logically, ought to denote the notes of frequencies, 32/27 and 16/9 and not the notes of frequencies, 9/8 and 27/16.

Govinda Dikshitar, Venkatamakhi, Paidāla Gurumurti Sastri and Govindāchārya (the author of *Sangraha Chudāmani) are some of the prominent names amongst the composers of lakshana gitas.

Varna

Varnas are scholarly compositions. They are elaborats melodies replete with $r\bar{a}ga$ $bh\bar{a}va$. A varna containe within it not only the $r\bar{a}ga$ ranjaka combinations, but also the visesha sanchārus and the several apurva prayagas and dātu prayagas that the raga admits of. Amongst the compo

sitions of the technical group (abhyāsa gāna), the varna takes the first rank in point of importance. Varnas are learnt and practised with great care and assiduity by both vocalists and instrumentalists. The practice of varnas considerably helps one in the artistic, polished and stylish rendering of pieces. The paucity of words and the consequent profusion of vowels in the sāhitya as also their even distribution make it an ideal piece for the training of the voice. To the instrumentalist, it developes his finger skill and improves his technique of execution. The ettugada svara passages serve as models for the development of kalpana svaras.

The sāhitya of a varna is comparatively short and insignificant and may relate to either bhakti (devotion) or sringāra (love) or it may be in praise of a patron or be descriptive of the particular varna.

It requires great skill, technical capacity, creative faculty of a high order and detailed knowledge of the lakshanas of ragas to compose varnas. Composers of varnas are few and the number of all the available varnas does not exceed a few hundreds. Compared with this, we have thousands of kriti and kirtana compositions and more than a hundred composers of these types.

Among the pieces belonging to the realm of abhyāsa gāna, the tāna varna is the last type to be practised before beginning concert forms like the kriti.

The constituent angas of a varna are :-

- The purvānga, comprising the pallavi, anupallavi and the muktāyi svara.
- (2) The uttarānga, or the ettnikudai comprising the charana and the charana svaras.

The purvanga and the uttaranga are of almost equal length.

The charana of a varna is also known by other names as ettugada pallavi, upa pallavi ānd chitta pallavi (ie. as opposed to the pallavi, forming a branch of manodharma sangita). The charana of a varna is analogous to a pallavi since it is repeated at the conclusion of each ettugada svara.

The ettugada svara passages should progressively increase in length and complexity. The first ettugada svara passage is usually of the length of one āvarta and is characterised by a profusion of dirgha svaras. The length of each subsequent ettugada svara passage is either the same as the one preceding it, or more. The last ettugada svara passage is the longest and may be of two or four āvartas. Ettugada svaras of the length of three āvartas are seen in a few varnas.

Even if the order of the ettugada svaras of a varna is changed and given, it is possible to re-arrange them in the order intended by the composer. Even in the case of ettugada svaras of an equal number of āvartas, it is possible to say which precedes which, taking into consideration the manner of development of the dhātu.

Barring the *Pancharatna* of Tyāgarāja, the varna is the only composition containing an *upa* (extra) *pallavi*. Some varnas have even two upa pallavis.

Varnas are of two kinds :-

(1) Tāna varnas, which are the compositions played or sung at the commencement of a concert and which are practised by students of music after a course in the gitas and svarajatis. In a tāna varna, the pallavi, anupallavi and charana alone have sāhitya. The other portions are sung as solfa passages. Thus the tāna varna furnishes an instance of a composition, wherein a part is sung as a solfeggio and the rest with the sāhitya. On account of the preponderance of tāna jātis or phrases in this form, it came to be called tāna varna. The wide dispersal of the sāhitya syllables is a characteristic feature of the tāna varna.

(2) Pada varnas (also called chauka varnas and āta varnas) are the compositions heard in dance The entire composition herein has concerts. The matu is characterised by less sāhitva. of vowel extensions. The music is in a somewhat slower tempo and is intended to give ful scope to convey the bhāvas. Because of its affinity to the padam, both in point of tempo and the theme of the sahitya, this composition came to be called pada varna. Jatis (சொல்கட்டுகள்) are met with in some pada varnas.

Tāna varnas are found in Adi, Ata, Jhampa, Khanda jāti Triputa and such other long tālas and not in short time-measures like Rūpaka. Short time-measures are an impediment to the free flow of tāna ideas. There are pada varnas in rūpaka tala- Tāna varnas present the svarupa of their ragas in a nut-shell. Hrasva nyāsas, dirgha nyāsas and alpa nyāsas of ragas are all clearly illustrated in tāna varnas. Tāna varnas are intended for being practised in trikāla (three degrees of speed) but not so pada varnas.

Rāgamālika varnas are compositions wherein the sections are in different ragas. The Navarāga mālika varna in the nine ragas: Kedāra (pallavi), Sankarābharana (anupallavi), Kalyāni and Begada (muktāyi svara), Kāmbhoji (charana) Yadukulakāmbhoji, Bilahari, Mohana and Srīrāga (ettugada svaras); the Dinarāga mālika varna in the eight ragas: Bilahari (pallavi), Dhanyāsi (anupallavi), Madhyamāvati (muktāyi svara), Kalyāni (charana), Pūrvakalyāni, Kedāragaula, Mohana and Bhūpāla (ettugada svaras); and the Ghanarāga mālika varna in nine ghana ragas beginning with Nāta are wellknown compositions. There are also rāgamālika varnas belonging to the category of pada varnas.

Because of the occurrence of certain sections as solfeggios, the reason for the non-inclusion of the raga names in the sahityas of ragamālikā varnas is obvious.

As for the gāna krama of a varna, the pallavi, anupallavi and the muktāyi svara are sung in order and concluded with the pallavi. Each āvarta is sung twice. Halting on shadja or panchama or on some other suitable note, for the rest of the āvarta is made at apt places. The charana is next sung followed by the ettugada svaras. At the conclusion of each ettugada svara passage, the charana is again sung. The ettugada svaras are not repeated. The sangatis if any, are sung only once. Since in the pada varna, the muktāyi svara and the ettugada svaras have sāhitya, the svara part of each section is first sung, and then the corresponding sāhitya part. For the svara part nritta is performed and for the sahitya part, abhinaya.

With the exception of Tyāgarāja's Pancharatnam, the varna is the only form wherein the original pallavi is ignored at a subsequent stage of the composition.

Ramasvamy Dikshitar has composed a beautiful svara sthāna varna (sa ri ga da ni) in Todi raga, ādi tala, bristling with svarākshara beauties.

Some chauka varnas have sāhitya for the pallavi, anupallavi and charana alone and the rest of the composition sung as solfa passages, after the model of a tāna varna; Ex. Rūpamu juchi in Todi raga, Adi tala by Muthusvamy Dikshitar.

Pada jati varna is a pada varna wherein jatis figure.

Formerly varnas had a supplementary section called the anubandham. It consisted of a sahitya part and s solfa part. This sahitya served to complete the idea in the sahitya of the rest of the varna. The sahitva beginning with the words chiru chamatalu చిన చనుటలు (See P. 116 of Sangita Sarvārtha Sāra Sangraham—Telugu) constituted the anubandham for the famous varna Viriboni in Bhairavi raga. Some anubandhas did not have a separate solfa passage and in such cases, the anubandha was followed by the singing of the muktavi svara of the puryanga part and the original pallavi then sung and the composition concluded. As the anubandha did not very much add to the musical excellence of the varna, it gradually fell into desuetude. Nobody sings the anubandha section of the Viriboni varna at present. Subsequent composers of varnas like Vina Kuppavyar did not bother about the inclusion of the anubandha in their compositions. Anubandhas figure in the tana varnas of Ramasvamy Dikshitar and Sonti Venkatasubbayyar (see Sangita Sampradāya pradarsini Vol. II. Pages 908 and 956). The anubandham may be compared to the coda of European music. Since it disturbed the balanced length of the purvanga and uttaranga, it was gradually given up.

Pachchimiriyam Adiyappiah, Sonti Venkatasubbayyar, Syāma Sāstri, Vīna Kuppayyar, Pallavi Gopālayyar, Svāti Tirunal, Mānambuchāvadi Venkatasubbayyar, Muthusvāmy Dikshitar, Paramesvara Bhāgavatar, Annasvamy Sastri, Tiruvārur Aiyāsami, Patnam Subrahmanya Iyer, Garbhapuri, Kottavāsal Venkatarama Iyer, Tiruvottiyur Tyāgayyar, Ramnad Srinivasa Iyengar, Kuppusvami and Fiddle Ponnusvami are some of the famous composers of tāna varnas.

Govindasāmayya and Kūvanasāmayya of Kārvetnagar Rāmasvāmy Dikshitar, Vadivel Nattuvanār, Pallavi Seshayyar, Rāmasvāmy Sivan, Subbarama Dikshitar, Mysore Sadasiva Rao and Kunrakudi Krishnayyar are some of the famous composers of pada varnas.

Kriti

The kriti composition is the most highly evolved amongst art musical forms. It is the most important of the melodic last two centuries has attempted this type of composition. The elastic nature of the form coupled with the fewness of rules, afforded ample scope to the composer for the display of his creative genius. Freed from the tyrannical grip of words, the composer was able to pour forth his thoughts through the language of pure music in an abundant manner. Kritis form the bulk of the musical compositions at the present day. In a modern concert more than half the time is taken up with the rendering of kritis and righty so. kriti has come to occupy that important place amongst concert pieces on account of its inherent beauties. The composer enjoyed ease and freedom in the expression of hia musical thoughts in this form. He enjoyed freedom in the matter of the choice of the raga, tala. tempo, style and theme.

The only ideal present in the mind of the composer, during the composition of a kriti, is the delineation of the raga bhāva in all its varied and rich colours. Kritis stand as examples of absolute music. Anything like distinctive styles in musical compositions is seen only in kritis. Kritis contain apt themes for developing niraval and kalpana svaras. With the dawn of the kriti composition, many of the older types of compositions became obsolete.

It will be useful at this stage to draw the line of distinction between the two forms, kriti and kirtana. The term kriti refers to the composition whose claim to permanence lies principally in its music and not in its sāhitya. Kirtanas are older than kritis. Kriti is a development from the kirtana. The kirtana had its birth about the latter half of the fourteenth century. The kriti in its fully developed form appears about four centuries later.

Although the term kriti in a wider sense means any musical composition (বর ছার বর ছারি:—that which is composed is a kriti) still composers and scholars during the last 500 years have felt the necessity to restrict the term kriti, to those kirtanas whose claim to permanence lay primarily in their musical setting. The Tāllapākam composers (15th century) nave used the term. Purandara Das in his song Vāsudevana nāmāvaliya in Mukhāri rāga, says that he has composed 4,75000 kritis. Tyagarāja in his piece, Sogasuga mridanga tālamu (Sriranjani) gives the lakshana of an ideal kriti. Walajapet Venkataramana Bhāgavatar in his sīsa padyam E kalā kalitundu ఏ ১০০ ১০০১ says "I pay my homage to Tyagaraja who has composed different types of kritis.......". Scholars and composers like Tachchur Singarāchārlu, Tiruvottiyur Tyagaayyar, T. M. Venkatesa

Sastri and others have uniformly used the term kriti, to denote the compositions of Tyagaraja and other similar compositions and have restricted the term kirtana to those compositions whose sahityas had a special spiritual value. That a kriti sounds perfect when performed on an instrument is proof of the fact that the essential factor in this form is the dhatu.

The kirtana is a strictly sacred form. Its sāhitya may be of a devotional character, or may relate to a purānic theme. It may also be in praise of great devotees (bhaktas). Many kirtanas are doxologies. The music as well as the rhythm of a kirtana are simple. It is a composition belonging to the realm of applied music. The music is used herein only as a vehicle for the singing of the glories of God. In other words, the music is used simply as a means to an end. The music is subordinated to the sāhitya. Words are many and the charanas are all sung to the same $dh\bar{a}tu$. Sometimes the charanas have the same music as the pallavi. The anupallavi is a dispensable anga in a kīrtana. The different angas are characterised by the same eduppu. The compass of the music is short and the piece can easily be learnt by rote.

In the kriti, the sāhitya may be of a sacred or secular character. It may relate to an ethical or didactic theme. Words are few and they serve only as a vehicle for the singing of the music. The music is complex and bristles with technical beauties. There may be one or more charanas. The charanas may have the same diātu or different dhātus. The compass of a kriti extends usually from 1½ to 2 octaves. Atita-anāgata complexities are frequently met with in kritis. Kritis are veritable raga crystals. We derive knowledge of the many apūrva ragas through them. We find the

musical language in its purest form in a kriti and such a thing as musical interpretation is possible only in this form. Whereas kirtanas can be sung by even persons of average skill and training, justice can be done to kritis only by those initiated in music. A musical form can have prose or poetry for its sāhitya. The sāhityas of many kirtanas are characterised by poetic metres. The sāhityas of a good number of kritis have dignified prose in them. Kirtanas are in common ragas; but kritis are in common and scholarly ragas. Many rare ragas live through kritis alone.

There are however some compositions on the border line. They contain high-flown music and lofty spiritual thoughts. It will be difficult to say in such cases whether they are to be classified under kritis or kirtanas.

Whereas in a svarajati, the charanas can be of varying length, the charanas of an individual kriti or kirtana should be of the same length. Even in kritis with plural charanas this rule holds good.

The raga system of India shows all the melodic and aesthetic possibilities in the realm of music. In order to form a complete picture of a raga, one should listen or learn at least ten compositions in it, representative of the forms: gita, varna, kriti and padam. In this connection it may be mentioned that a person who performs an ālāpana of a raga with the background of a kriti in that raga in his mind, suffers from a certain limitation. A kriti is an exposition of a particular aspect of a raga. The phrases figuring in the kriti dominate his imagination and he finds it difficult to go beyond them and give an elaborate ālāpana. Persons wishing to attempt a detailed ālāpana of a raga would do well to think

of the raga as a whole and start the ālāpana and not be obsessed by a particular composition in it.

The pallavi, anupallavi and charana are the minimum and essential angas of a kriti. There may be one or more charanas. In many kritis, the dhātu of the latter part of the charana is found to be the same as that of the anupallavi. But in the kritis of Muthusvamy Dikshitar, the dhātu of the anupallavi does not repeat in the charana. A number of simple compositions of this composer have only the two sections, pallavi and anupallavi; Ex. Sri Sarasvati Nomostu te, Arabhi. Such compositions may be compared to the earlier ugābhogas.

In kritis with plural charanas, as a rule it is the mudra charana (the charana containing the signature of the composer) that is sung. A charana other than the mudra charana may be preferred, if that charana contains an apt and intricate theme for performing niraval or kalpana svaras; Ex. Tambura chekoni in the charana, vekuva jamuna of Koluvamanegada, Todi; and Baktula vāg imrita pānamu in the first charana of Buddhi rādu, Sankarābharana. A non-mudra charana is also preferred when it contains a fine idea; Ex. the first charana of the kriti, Svararāga sudhā rasa, Sankarabharana. If the charanas are set in different dhātus, all of them have necessarily to be sung as in the kriti, Enduku nirdaya (Harikāmbhoji).

The kriti composition has been enriched by the introduction of non-essential angas like:—

(1) Chitta svara. This is a set solfa passage in 2 or 4 āvartas if in ādi tāla, and 8 or 16 āvartas if in chāpu, triputa or rūpaka tala and is sung at the end of the anupallavi and charana. Usually it is set in madhyama kāla. Chitta svaras are crystallised kalpana svaras. The kritis: Nimadi challaga (Anandabhairavi), I vasudha nivanti (Sahāna), Raghuvamsa sudhāmbhudhi (Kathanakutūhalam), Sringāralahari (Nilāmbari), Pāhimam Sri (Janaranjani) and Sri Raghukula nidhim (Huseni) contain some of the best chitta svaras.

Some chitta svaras contain the beauty known as 'figure.' In such cases, the same phrase recurs at the commencement of each āvarta or half-āvarta or alternate āvarta. The chitta svara to the kriti: Inta parākelanamma in Begada of Vina Kuppayyar is an example.

There are instances wherein appropriate chitta svaras have been added to kritis by subsequent composers. As an example may be mentioned the chitta svara adorning the kriti, Māmava satatam (Jaganmohini rāga) of Tyagaraja and composed by his disciple, Walajapet Krishnaswamy Bhāgavathar.

Viloma Chitta svara. This is the case of a chitta svara which can be sung from beginning to end and again sung in the reverse order from the end to the beginning (i.e. in both the anuloma and viloma krama—forwards and backwards) without offence to rāga bhāva. The rāga bhāva should not suffer even partially in the apasavya part. For example, the following passage in Kalyāni raga might be sung both forwards and backwards as indicated and still maintain the rāga bhāva:—



i.e., when sung backwards, it will be P m g G m p P d n S

It is not an easy thing to compose chitta svaras of this type. Such chitta svaras can be composed only in ragas with a symmetrical arohana and avarohana, i.e., in krama sampūrna, shādava and audava ragas having the same notes in both the arohana and avarohana.

The classic instance of a viloma chitta svara is met with in the 2nd Komalāmbā Navāvarana kriti: Kamalāmbām bhajare in Kalyāni of Muthuswami Dikshitar:—

4 .	0	0
srgmdn - rgpd-md ng sr	nr g-nsn-rs	N-n D-d P
(The same passage from	the end to the	beginning)
PdDn N-srns ngr n	s gnd-m d p	gr-ndmgrs

Another example of an anuloma -viloma krama chitta svara is seen in the kriti: Sadāvinata sādare (Revagupti rāga, Rupaka tāla) of Muttuswami Dikshitar:—

rGPdSrgR | sDpGpdpdS (anuloma part)
SdpdpGpDs | RgrSdPGr (viloma part)

A chitta svara should present a certain aspect of the raga not covered by the piece itself. For this reason a chitta svara intended for one kriti cannot be used for another kriti in the same raga, though the latter's tala, tempo and eduppu might admit of it. Chitta svaras may be compared to a bunch of flowers adorning a beautiful creeper and are interesting to hear. They give an impressive conclusion to the anupallavi and charana. In cases of doubt, they are useful in fixing the commencing note and the eduppu of the pallavi. Some chitta svaras have in addition a lakshya value; for example, the chitta svara of the piece $Amb\bar{u}$ ni saranamu in Anandabhairavi, which uses the phrase p P n n s.

Some chitta svaras conclude with makutas or crown-like endings. Makutas are short, crisp, effective and beautiful. Short chitta svaras have short makutas and long chitta svaras relatively long makutas. The constituent phrases of a makutam may be of the same magnitude as in the instances of the chitta svaras to the kritis: Nimadi challaga (Anandabhairavi) and Brochevārevarura (Khamās); or, the component phrases may be after the pattern of a srotovaha yati — i.e. phrases progressively increasing in magnitude. The concluding part of the muktāyi svara of the Chalamela varna (Sankarābharana rāga, Ata tāla) is an example of the latter type:

This makutam might be characterised as an ārohana makutam, since its constituent phrases are in the ārohana krama.

Chitta svaras are not fit themes for developing kalpana svaras.

(2) Svara sāhitya. When an appropriate sāhitya is added on to the chitta svara, the technical appendage is called a svara sāhitya. In this case the svara part is sung at the end of the anupallavi and the sāhitya part at the end of the charana. The sāhitya of this section is so couched that a continuity of sense is maintained when sung at the conclusion of the anupallavi or charana.

The pieces: O Jagadamba (Anandabhairavi), Janani ninnu vina (Ritigaula), Ninu sevinchina (Yadukula kambhoji), Sri Pārthasārathe (Bhairavi) and Vāchāma gocharundani (Atāna) contain some fine examples of svara sāhitya. The kritis of Subbaraya Sastri and Mysore Sadasiva Rao contain some of the most beautiful svara sāhityas.

There are also instances when beautiful and fitting svara sāhityas have been added to kritis by subsequent composers. For example the svara sāhitya for Syāma Sastri's *Pālinchu Kāmākshi Pāvani* (Madhyamāvatī) was the addition of Annaswāmy Sāstri.

(3) Madhyamakāla sāhitya. This is an integral part of a kriti. This passage may occur at the end of the anupallavi or charana or both and is set in the madhyama kāla (quicker tempo) i e in the second degree of speed. The madhyama kāla sāhityas add a certain majesty to compositions. Excellent examples of this technical beauty are to be found in the compositions of Muttuswamy Dikshitar. Sometimes madhyamakāla sāhityas also occur in the pallavi, as for instance in the kriti, Sri Sarasvati namostu te in Arabhi.

Madhyamakāla sāhityas are not appropriate themes for developing niraval, but they may admit of kalpana svaras being developed. As an example may be mentioned the madhyamakāla sāhitya adorning the kriti, Koniyādina nāpai (Kambhoji) of Vina Kuppayyar.

(4) Solkattu svara. This is the case of a regular chitta svara, where, in some portions, instead of the solfa syllables, appropriate jatis (tala mnemonics) are introduced and sung. The jatis are sung to the music of the displaced svaras. As the section is sung, one will hear the svaras and jatis alternately. This svara passage interspersed with jatis forms a pleasant variety in the midst of a kriti and heightens the beauty of the composition. The pieces: Sri Mahā Ganapati (Gaula), Ananda natana prakāsam (Kedāra) and Pārthasāradhini sevimpa (Yadukula kāmbhoji) contain splendid examples of solkattu svaras.

There are instances of apt solkattu svaras being added to kritis by subsequent composers. The solkattu svara to the Gaula kriti, *Sri Mahā Ganapati* is the contribution of Radhakrishna Bhāgavathar, the son of Pallavi Somu Iyer of Talanāyar.

Kritis have also been enriched by the introduction of sangatis. Sangatis are variations on a musical theme, developed step by step. Each sangati is an evolution from the previous one and marks an improvement upon it. Sangatis are also an integral and indispensable part of the composition. They might be compared to the stones of an arch and the deletion of even one of them or

the change in their sequence will destroy the beauty and the composite character of the piece. Sangatis have been introduced either for emphasising certain delicate and latent shades in the meaning of the sāhitya, or for bringing out the colourful and varied aspects of the $r\bar{a}qa$ $bh\bar{a}va$. Some kritis like Chera $r\bar{a}va$ demina (Ritigaula) have sets of sangatis. The credit of introducing sangatis in kritis with a definite musical purpose goes to Tyagaraja.

Sangatis may be developed from the terminal or initial phrase of a musical theme. The sangatis for the pallavi of Koluvamaregada (Todi) may be cited as an instance of the former type and the sangatis for the pallavi of Sri Raghuvarāprameya (Kāmbhoji), as an instance of the latter type. Rarely sangatis may progress from the central part of a theme as in the phrase: sringāramu of the pallavi of Chetulāra (Bhairavi). The illustrations A, B and C given below visually represent the progression of sangatis in these three types. The wavy lines show the varied portions of the theme:—

A 0	1.	
A. Sangatis progressing	2.	
from the end of a theme	3.	
or a thomo,	4	
B. Sangatis	1.	
progressing from the	2.	~~~~
beginning	3.	~~~~
of a theme.	4-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

C. Sangatis progressing from the central part of a theme.

In reckoning the sangatis, the fundamental theme itself is reckoned as the first sangati. The last sangati wherein the climax is reached is characterised by melodic fulness and rhythmical liveliness. In some cases the dhātu of the last sangati is found to be entirely different from the music of the original theme. In the sangatis of the kritis, Darini telusu konti (Suddha sāveri) and Nājivādhāru (Bilahari), some of the ancient alankāras (svara-group patterns) are aptly introduced. In order to enable the listeners to grasp and appreciate the subtle and progressive changes of the dhātu, each sangati is sung twice.

The number of sangatis in the different sections of a kriti ought to bear a just proportion. The anupallavi may have an equal number of sangatis as the pallavi, or a less number. The charana may or may not have sangatis. It will not be in keeping with the symmetrical construction of the piece, if the charana is loaded with a number of sangatis, and its pallavi and anupallavi have either few or no sangatis.

Sangatis in the compositions of some minor composers are found to be artificially developed. As a rule, it is not advisable to add sangatis to compositions, wherein the composers themselves did not contemplate them. Such an introduction will interfere with the scheme of development of of the dhātu followed by the composer. The compositions sound perfect without the added sangatis. But it must be

said that the sangatis added by Mahā Vaidyanātha Iyer 1844-1893) to the kritis: Vātāpi Ganapatim (Hamsadhvani), (Chintaya mā (Bhairavi) and Sri Subrahmanyāya namaste (Kāmbhoji) nicely fit in with the pieces.

In addition to the above, we also meet with some literary and prosodical beauties in the sāhitya of kritis.

Svarākshara is one such, and has been successfully attempted by some composers. In a svarākshara passage, the mātu and the dhātu are exactly identical i.e., the sāhitya syllables as well as their corresponding svara letters are the same. It requires intellectual gifts of a high order to attempt this kind of technical beauty. The compositions of Svāti Tirunāl of Travancore are full of this technical beauty. In the following examples the bracketed portions are examples of svarāksharas:—

- (1) { pa da sa } ro ja —the charana of the Navarāga a sa sa sa sa sa sa mālika varna.
- (2) Sri Rama { pā da ma } Amritavāhini kriti of పా ద మా } Tyāgaraja.

The first ettugada svara of the Kāmbhojī varna beginning with the words: Pankojākshi pai:—

- (3) { Ni dā ri ni da pa ga mā ni ni } yunnadi సీ వా కి నీ జ షృ గ మా నీ నీ యున్నది.
- (4) $\begin{cases} Ni \text{ sa ri sa} \\ 5 \approx 8 \approx \end{cases}$ mā na Manipravāla kriti in Bhairavi.
- (5) { sa ri ga pā ga ichchene (sā dā pā ga ichchera స రీ గోపా గా) ఇచ్చేవే { పా దా పా గా } ఇచ్చేరా

Svarāksharas may be elassified into:-

1. Direct,

2. Suggestive.

The examples given above are all instances of direct svarāksharas. Suggestive svarāksharas are cases wherein the sāhitya syllables do not possess the same vowel endings as the corresponding svara letters. The opening phrases of Syāma Sastri's kriti: Durusuga (Sāveri) and Svāti Tirunāl's kriti: Sārasāksha (Pantuvarāli) furnish good examples of this latter class:—

Combinations of direct and suggestive svarāksharas also occur in some cases. The following phrase, from the charana of Subbaraya Sastri's kriti: Ninu sevinchina (Yadukulakāmbhoji) is a good example:—

Manipravāla kritis. In the sāhitya of these songs, the words of two or more languages figure and the sentences are so framed and presented, as not to offend against the rules of grammar or prosody. A complete idea is conveyed in each

case. Muttusvamy Dikshitar's kriti in Kāpi raga: Venkatā-chalapate, is a good example. The sāhitya of the pallavi and anupallavi of this song is given below in the scripts of the respective languages for the sake of clearness:—

Pallavi:-

वेंकटाचलपते २००५ रुक्कि इं४ के रुक्कि एक्कियाकाणा ॥

Anupallavi:-

पंकजासनपमुखादिविनुत वेठक कार्व कार्व कर इसू

க்லை கிறு ல்லக்கிறி மங்களம் பொருக்கிய புளிவலத்தில் விளங்கும் ய

The kritis: Ni sari samāna in Bhairavi and Sri Tyāgarāja Svami ni mahima in Vāchaspati raga are also instances of manipravāla kritis.

In some kritis, the $pr\bar{a}sa$ beauty is carried to extremes. The jingle of the recurring $pr\bar{a}sa$ at regular intervals adds beauty to the song. The charanas of the kritis: Eduta nilachite (Sankarābharana) and $Par\bar{a}sakti$ manuparāda (Saveri) are good examples. The charanas of the kritis: $N\bar{a}rada$ $g\bar{a}nalola$ (Athana) of Tyagaraja and $Kanakasabh\bar{a}pati$ darisanam (Dhanyāsi) of Gopalakrishna Bhārati contain beautiful antya prāsas.

The sāhityas of the kritis: $P\bar{a}him\bar{a}m$ Sri $R\bar{a}mayante$ (Yadukulakāmbhoji) of Bhadrāchala Rāmadās and $M\bar{a}ye$ tvam $y\bar{a}hi$ (Sudhātarangini) of Muthuswami Dikshitar are luxuriously decorated with rhetorical beauties. The sahitya of the kriti: $Ty\bar{a}gar\bar{a}jayogavaibhavam$ (Anandabhairavi) of

Muthuswami Dikshitar has both the gopuchcha and the srotovaha types of literary beauties within it.

In the sāhityas of songs relating to deities associated with dance like Natarāja, Krishna and Ganapati, jatis are introduced. Such solkattu sāhityas are interesting to hear. In the song Natanamādinār (Vasanta) we have a beautiful passage of jatis.

A kriti may be the product of inspiration or of conscious effort. The technical beauties mentioned above are all products of conscious effort.

All these technical and literary beauties are styled non-essential, because, even if all these are absent, the kriti will still be a perfect composition. The non-essential angas may be compared to the dazzling and attractive designs, and the lace and embroidery work figuring in costly sarees. Too many of the non-essential angas tacked on to a kriti will result in heaviness and the piece itself will not be able to sustain the ornamental load.

Since the kriti composition alone is capable of being embellished to such an extent as shown above, it is no wonder that every composer during the Tyagaraja and post-Tyagaraja period showed a definite bias towards this type of composition.

As for the ganakrama of a kriti, the pallavi, anupallavi and the chitta svara if the composition has one, are sung in order and the part concluded with the pallavi. This is followed by the charana. After this the chitta svara is again sung and the composition concluded with the pallavi. If instead of the chitta svara, the composition has a svara sahitya, the solfa part of this technical beauty is sung at the end of the

anupallavi and the sahitya part at the end of the charana. Each sangati is sung twice as a rule, in order, to enable the listeners to follow the gradual changes of the dhatu with interest. A feeling of expectancy is aroused in the audience as they listen to the sangatis. When one sangati is sung. they eagerly await the next one, and so on. A feeling of æsthetic joy and fulness comes to them when they listen to the last sangati. At the conclusion of the anupallavi and charana, the last sangati of the pallavi is sung, but only once and the section or the composition concluded (Example: Kannatandri nāpai, Devamanohari). case of kritis wherein the peak sangati of the pallavi (i. e. the sangati wherein the climax of the melodic beauty is reached) is not the last sangati, but the penultimate sangati. (Example: Bhajana seya rāda, Nata) the penultimate sangati is sung at the conclusion of the anupallavi and the charana. The pallavis of some kritis are provided with a special sangati for being sung at the conclusion of the anupallavi and the charana. In such cases, this special sangati of the pallavi should alone be sung. at the conclusion of the anupallavi and charana and the section or the composition concluded. In kritis like Najivadhara (Bilahari), some of the later sangatis of the pallavi have small terminal phrases which appropriately lead on to the next sangatis. In such cases, the terminal phrase is sung during the repetition of the sangati in order to naturally lead on to the next sangati.

In kritis with charanas of different dhātus, the singing of all the charanas is obligatory. Where the charanas have the same dhātu, it is open to a singer to sing one, some or all the charanas. Usually the mudra charana is sung; but some other charana may be sung in the place of the

mudra charana, if the preferred charana has a theme appropriate for developing niraval or kalpana svara, or contains a nice idea or rhetorical beauty. Where the sāhitya happens to be richly descriptive, as in the kriti: Lekana ninnu (Asāveri), all the charanas are sung, even though in this piece, the dhātu of the anupallavi and the four charanas happens to be the same.

Halting on a note may be made at appropriate places in the kriti. Besides adding to the euphony, the halting gives breathing space to singers. The accompanying Violinist also contributes his share to the general effect. A valuable opportunity is provided herein for the steadying of laya and the mridangam player fills up this part with suitable rhythmic display. In pieces in adi tāla, the duration of the halt may be about $\frac{1}{2}$ or $1\frac{1}{2}$ āvartas and in pieces of shorter time-measures like rūpaka or cnāpu, the duration of the halt may be one or three āvartas. The anupallavi of the kriti: Ninu vinā nāmadendu (Navarasakannada) provides an excellent example of a halting place.

Where appropriate, kalpana svaras alone or niraval followed by kalpana svaras may be attempted. Appropriate themes for niraval may be found in the anupallavi or charana of a kriti. Such themes may occur at the commencement of the section or in the middle of the section.

Group kritis

Those kritis, which are not separate and distinct units by themselves, but form links in a chain of compositions composed on a common theme are termed group kritis. Pieces like Evari māta vinnāvo and Evarani nirnayin.

chirirā are separate krītis by themselves having a complete sense. But pieces like Kamalāmbām bhajare and Saroja dala netri form units of a group of kritis forming a composite whole. The former piece belongs to the Kamalāmba Navāvaranam of Muttuswamy Dikshitar and the latter to the Navaratna mālika of Syāma Sāstri. The number of individual compositions in group kritis is usually either 5 or 9.

The following Table gives some of the prominent group kritis:--

Table XIII

Name of the composer and the title of the group kritis.	Theme	
Tyagaraja's (1) Pancharatn m	The well-known composi- tions, in Nāta, Gaula, Arabhi, Srīrāga and Varāli, of that name.	
(2) Kovur Pancharatnam	A set of five kritis composed in praise of Sri Sundares- wara swamy of Kovur when he visited that shrine.	
(3) Tiruvottiyur Pancharatnam	A set of five kritis composed in praise of Goddess Tri- purasundari of the Tiru- vottiyur temple during his	
Muthuswamy Dikshitar's (1) Kamalāmba Navāvaranam	visit to that place. 9 kritis on Kamalāmbika.	
(2) Abhayāmba Navavar a nam	9 kritis on Abhayāmbika.	

Table XIII-contd.

Name of the composer and the title of the group kritis	Theme
(3) Siva navāvaranam.	9 kritis on Siva (Tyagaraja).
(4) Panchalinga Sthala kritis	5 kritis in praise of the 5 lingas:—Prithiri, Appu, Teyu, Vāyu and Akāsa, enshrined respectively in the temples at Conjeevaram, Tiruvānaikkāval, Tiruvannāmalai, Kālahasti and Chidambaram.
(5) Navagraha kritis (also called Vāra kirtanas)	In praise of the planets:— Sūrya (sun), Chandra (moon), Angāraka (mars), Budha (mercury), Brihas- pati (jupiter), Sukra (venus), Sanaischara(saturn) and Rāhu and Ketu (the two
Syama Sastri's Navaratna mālika	chhāyā grahas). 9 kritis in praise of Goddess Mīnākshi of M adu ra .
Vina Kuppayyar's Kālahastisa Pancharatnam	5 kritis on Kālahastīsa
Venkatesa "	Do. Venkatesvara

Like group kritis, there are also the group kirtanas. Tyagaraja's Divyanāma kirtanas, Utsava sampradāya kirtanas and Samkshepa Rāmāyana kirtanas are examples. The names of some of the prominent composers of kritis, their signatures (ankitam or mudra) and the languages in which they have composed are given in the following table:—

Table, XIV.

C	Composer's name.	Signature.	Languages in which he has composed.
ity	∫ Tyāgarāja	$Tyar{a}garar{a}ja$	Telugu & Sanskrit
Musical Trinity	Muthuswāmy Dikshitar	Guruguha	Sanskrit, Telugu & Tamil
Musi	Syāma Sāstri	Syāma Krishna	Telugu, Sanskrit & Tamil
Rā	maswāmy Dikshitar	Venkata Krishna	Telugu and Sanskrit
Μā	irgađarsi Seshayyangār	Kosala	Sanskrit
Sv	āti Tirunāl	Padmanābha or the equivalent of that name.	Sanskrit, Hindi and Telugu and in Manipravālam (Sanskrit - Malaya- lam)
An	а у уа	Umādāsa	Telugu and Tamil
Pa	llavi Gopālayyar	Venkata	Telugu
	na Kuppayyar and Tiruvottiyur Tyāgayyar	Gopāla dāsa	Telugu & Sanskrit
Subbarāya Sāstri		Kumāra	Telugu
Sr	inivasa	Vijayagopala	Telugu

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Table XIV - ontd.

Composer's name.	Signature.	Languages in which he has composed.
Patnam Subrahmanya Iyer	Venkatesa	Telugu, Sanskrit & Tamil
Karur Dakshināmurti Iyer & Devudu Iyer	brace Garbhapuri	Telugu
Mysore Sadāsiva Rao	Sadāsiva	Telugu & Sanskrit
Pallavi Seshayyar	Sesha	Telugu
Rāmaswāmi Sivan and Mahā Vaidyanātha Iyer.	$\int Guhad ilde{a}sa$	Sanskrit, Telugu and Tamil.
Gopālakrishna Bhār a ti	Gopāla- Krishna or Bālakrishna	Tamil

The charanas of some kirtanas have jatis introduced at appropriate places and they provide a welcome and pleasing variety. Such passages of jatis are termed solkatta @freshings sākityas on the analogy of solkatta svaras.

Adiya pāda 🍇 ជា ភា (Sankarābharana) of Gopala krishna Bhārati, some of the songs figuring in the Krishna lila tarangini of Nārāyana Tirtha and many Tiruppugazh hymns contain beautiful solkattu sāhityas. In the Tamil song, Natana mādinar (Vasanta) of Gopalakrishna Bhārati, there is a whole passage of solkattu, and like a chitta svara, it is sung at the end of the anupallavi and the charana.

The Devaranāmas of Purandara Dās are typical models of devotional songs. They are the outpourings of a sterling devotee during moments of intense religious experience. Their language is simple and can be understood by the average person. They are pregnant with lofty ideas and contain within them the quintessence of the Upanishads. They breathe the fragrance of bhakti. Clothed in delightful music, they touch our hearts when heard.

As for the aanakrama of a kirtana, the procedure is the same as that for a kriti with the sections: pallavi, anupallavi and charanas. All the charanas are however sung herein, on account of their devotional value. In the case of divvanama kirtanas of the ekadhātu tupe (i. e. wherein the pallavi and the charanas are sung to the same dhatu), the charanas are sung continuously without reverting to the pallavi at each stage. Sri Rāma Jayarāma and Pāhi Rāmachandra Rāahava, both in Yadukulakāmbhoji raga, are examples of this type. Where the divyanama kirtana is of the dvidhatu type (i.e. wherein the music of the charana is different from that of the pallavi), the pallavi is sung at the conclusion of each charana. Eri Rāma Sri Rāma (Sahāna) and Pāhi Rūmachandra pālita Surendra (Sankarābharana) are examples of this other type. It will be seen that in this latter case, the dhatu as well as the matu of the charanas naturally lead on to the pallavi. A sense of completeness is felt only when the pallavi is repeated at the conclusion of each charana.

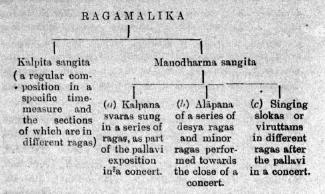
It may be observed in passing, that in cases of compositions like Tyāgarāja's Rāma nannu brovara (Harikāmbhoji), which lie on the borderland between a kriti and a kirtana, a performer in a kachcheri will lay more emphasis on the excellences of its musical construction and will attempt a beautiful niraval and kalpana svaras for the opening theme of the charana. The same piece when sung in a bhajana, will be rendered with emphasis on the spiritual contents of the sāhitya. The responses of the audience too, differ in the two cases. In the kachcheri, the listeners grow rapturous over the stylish rendering, the thrilling niraval and the kalpana svaras teeming with complex svara-group patterns. In the bhajana, the audience listen to the piece with reverential devotion and the spiritual strings of their hearts find a ready echo.

Purandara Dās, Bhadrāchala Rāmadās, Tāllapākam Chinnayya, Nārāyana Tīrtha, Giriraja Kavi, Sadāsiva Brahmendra, Vijayagopālasāwmy, Rāmachandra Yatindra, Sārangapani, Tyāgarāja, Gopālakrishna Bhārati, Arunāchala Kavirāyar, Kavikunjara Bhārati, Madhurakavi Bhārati, Māmbazhakkavirāyar, Rāmalinga Swāmi and Nilakanta Sivan are some of the prominent composers of kirtanas.

Ragamalika

Rāgamālikās are interesting types as showing how variety can be attained by couching the different sections of a composition in different ragas. By the term 'rāgamālikā' is generally meant the composition of that name. It is a set piece like the varna or a kriti. There are also rāgamālika varnas, rāgamālika kirtanas and gitas and svarajatis after the model of a rāgamālika. In manodharma sangīta, however the term rāgamā'ika signifies the chain of kalpana svaras sung in different ragas at the end of a pallavi. Also, when a musician sings slokas, padyas, viruttams and the stanzas of a Teyāram or Tiruyāchakam in different ragas,

he is said to sing a rāgamālika. Brief ālāpanas of different ragas performed towards the close of a concert are also referred to as a rāgamālika.



The rāqamālikā (garland of ragas) proper is a beautiful form consisting of a pallavi, anupallavi and many charanas. The charanas are of the same length. The anupallavi may be in the same raga as the pallavi, or in a different raga. In the former case, the length of the pallavi and anupallavi, together, will be found to be equal to the length of the charana. Sometimes the anupallavi is dispensed with. All the sections are in different ragas and the raga names are dexterously interwoven with the words of the sāhitya, without affecting its meaning. Composers of rāgamālikas have exhibited a certain eleverness in dissecting the raga names for this purpose.

The music of the anupallavi and the charanas is followed by an appropriate chitta svara (solfa passage) in the respective ragas. This is again followed by a short complementary

svara passage in the pallavi raga. This bridge-like complementary syara passage serves as a connecting link between the music of the anupallavi and the charanas on the one hand, and the music of the pallavi on the other : and the transition from one raga to another is effected in a This solfa' link in the pallavi raga pleasing manner. is like the coda of European music and facilitates the return to the pallavi. At the end of the composition there is a string of full avarta or half-avarta svara passages in all the ragas, but in the inverse order (viloma krama). This coloured solfa passage sung at the end greatly heightens the beauty of the composition. Longer ragamalikas are divided into sections, each section being an independent part. The sahitya of a ragamalika is usually of a devotional character. It may also be on a love theme or in praise of a natron.

As for the order in which ragas should succeed one another in a rāgamālika, certain general principles are observed. There are cases wherein the composer is tied down to a particular order, irrespective of aesthetic considerations, as for instance when he chooses to compose a rāgamālika embracing all the 72 melakarta ragas. Likewise in the / inarāgamālika varna also, the order of rāgas is determined. But where the composer is free to choose his own order, the following considerations are kept in view.

From the stand print of than and, there should be a naturalness in the squence of ragas. A techniq of abruptness should not be expriseded when the variation from one raga to another takes place. It is with a view to avoid this feeling of abruptness that a complementary sware passage in the pallavi raga cometimes referred to as the pallavi

AS MADRASASO

svara) is composed for being sung at the end of each section. Ragas which possess one or more common svaras and which are able to rouse similar or related rasas (feelings) can succeed one another in a fitting manner. Ragas which from an æsthetic point of view can succeed one another in a ragamālika are termed mitra rāgas.

Closely related ragas like Darbār and Nāyaki, Bhairavi and Mānji, Ahiri and Vakulābharana, Sahāna and Dvijāvanti, Kedāragaulā and Nārāyanagaula, Varāli and Vijayasri cannot come one after another. Any two contiguous ragas in a rāgamalika should be melodically distinct and clear-cut from the point of view of the general listener. With a few exceptions, janya ragas belonging to the same mela will not occur in succession. Ragas of diametrically opposite rasas too, like Athāna and Punnāgavarāli will not occur as contiguous ragas.

Four will be the minimum number of ragas for a ragamālika composition. The maximum number of ragas is sometimes defined by the theme chosen by the composer as for instance the Pakshamālika, where the number of ragas has to be 15, and the Nakshatramālika, where the number of ragas has to be 27 and so on.

In a rāgamālika the pallavi and the last charana should be in auspicious ragas. Ragas which can be sung at all times are generally preferred in a rāgamālika unless the composer is obliged to choose a particular set of ragas.

A person who wishes to compose a rāgamālika may choose the ragas figuring in any of the standard ragamālikas and adopt either the same sequence of ragas or the inverse order of their sequence. But Bhupāla, which is quite a nice raga for the last charana of a rāgamālika composition, will not be good as an opening raga for this form.

Rāgamālikas are lovely and enjoyable concert pieces. Besides a high entertainment value, this form possesses a lakshya value as well. The introduction of the raga names sets at rest doubts regarding their correct etymology. For example, from the *Chaturdasa Rāgamālika* of Muthuswamy Dikshitar, we learn that *Sāma* is the correct name of the raga and not Syāma. The melodic individualities of some rare ragas like *Pratāpa chintāmani* are revealed to us through some rāgamālikas.

There are some rāgamālikas which lack in one or two essential points relating to the lakshana of the form. The raga names are absent in some, and a do not possess chitta svaras.

 $Roga \ kadambakam$ is the name for a rāgamālika in earlier works.

Some of the well-known ragamalikas are:-

- Nitya Kalyāni Rāgamālika, a typical composition in 8 ragas by Sitārāmayya.
- (2) Pannagendra sayana, a beautiful rāgamālika in 8 ragas by H. H. Swati Tirunal Maharajah of Travancore.
- (3) Chaturdasa Kāgumālika in 14 ragas by Muthuswamy Dikshitar.
 - In this rāgamālika, the viloma krama chitta svara has also a sāhitya.
- (4) Apurupa rāga Chatushtaya Rāgamālika (Siva Bhupate—Desādi tāla) in 4 ragas, and Navaratna Rāgamālika (Karuninchumu Lokādhāra—Adi tāla) in 9 rāgas; both by Mānambuchāvadi Venkatasubbayyar.

The ragas figuring in the Chatushtaya rāgamālika are: Pratāpa chintāmani, Abhogi, Vijayasri and Purnachandrika; and in the Nivaratna rāgamālika, Nāta, Todi, Bhairavi, Kāmbhoji, Kalyāni, Athāna, Madhyamāvati, Nāyaki and Surati. In these two rāgamālikas, each section is an independent unit by itself and is concluded by singing the opening theme of the self-same section; when a section is over, the next section is commenced without reverting to the pallavi.

- (5) Ambā nunu nera nammiti, a rāgamālika in 9 ragas. There are no chitta svaras in this rāgamālika and the two halves of each charana are set in two different ragas. This composition is by Chinni Krishna Dāsa.
- (6) Ārabhimānam in Tamil, in 16 ragas by Tarangambādi Panchanadayyar.
- (7) Paksha mālika in 15 ragas.
- (8) The 72 Melakarta Rāgamālika by Mahā Vaidyanātha Iyer.
- (9) The 72 Rāgānga Rāgamālika by Subbarāma Dikshitar and Krishna Kavi.
- (I0) Manasāvedi, a rāgamālika in 48 ragas by Ramaswami Dikshitar.
- (11) Navaratna Rāgamālika (Gāravamu ganna) in 9 ragas by Subbarāma Dikshitar.
- (12) Sriramana padma nayana hari, a rāgamālika in 16 ragas by Tiruvottiyur Tyāgayyar.

NOTE.— The Sata rāga ratna mālika of Tyāgarāja is a garland of 100 kirtanas in 100 different rāgas and is a monumental composition.

In addition to the above composers, Parameswara Bhāgavatar and C. S. Krishnaswami Iyer also have composed rāgamālikas.

Rāgamālika kirtana is a composition wherein the pallavi, anupallavi and the charanas are set in different rāgas. A fine example of this type is the piece: Jaya Jaya Gokula pāla wherein we come across the rāgas: Bhairavi, Athāna, Kāmbhoji, Kalyāni and Surati. Nārāyana Tirtha, the author of the song composed it only in Kuranji rāga, but it was converted into a rāgamālika by Tiruvottiyur Tyāgayyar.

The Tamil song, Enakkun irupodam ninaikka varam arulvāi, figuring in the prologue to Arunāchalakkavirāyar's opera, Rāma nātakam is another example of a song which, originally set by the composer in Saurāshtra raga—Triputa tala, has heen metamorphosed into a rāgamālika in recent timess. In this changed version, the pallavi is set in Kalyāni and the other sections in appropriate rakti ragas. There are no chitta svaras. The rāgamālika kirtana of Sarangapāni, Kanna talli karuninchi brovumika in Adi tāla, consists of a pallavi, anupallavi and three charanas. Each charana consists of four pādas and each pāda is in a separate raga, the raga name being incorporated in the sāhitya of each pāda. This composition stands as a unique example of a rāgamālika kirtana, wherein the dhātu and the mātu are by the same composer.

Tālamālika is a composition wherein the different sections are in different tālas, but the entire piece itself is in one and the same rāga. As in rāgamālikas, in tālamālikas also, there should be a naturalness in the sequence of the talas.

We come across tilamālikas in the sphere of manodharma sangīta as well. Herein the musician selects a pallavi and

renders it in different tālas, compressing or extending the original musical theme according to the magnitude of the new tāla. It is only certain classes of pallavis that are eminently suited for this purpose. Tiruvottiyur Tyāgayyar used to delight his audiences by his tālamālikas in pallavis.

Pancha tālesvaram is a tālamālika in five sections, each section being set in one of the five mārgi tālas. Tālārnavam was a tālamālika and its sections, udgrāha, dhruva, and ābhoga were in different tālas. The sāhitya was either of prose or poetry. This is an obsolete form.

Rāgatālamālika is a rāgamālika and a tālamalikā rolled into one. It is a very difficult type of composition and only composers of extraordinary skill and creative talents can attempt this type. In South Indian music, we have a grand example of this type in the monumental Rāgatālamālika of Ramaswamy Dikshitar in 108 rāgas and tālas, beginning with the words:—Nātakādi vidyala. Each section, besides being in a separate rāga and tāla, has the name of the rāga and tāla incorporated in the sāhitya. Srivilāsa, Sriranga prabandham and Umātilaka prabandham are varieties of rāgatālamālikas.

Rāgamālikas and Rāgatālamālikas are the longest compositions in Indian music.

Pada

Padas (पె. ఆక్టు పదము) are scholarly compositions. The term pada was originally used to signify a devotional song. It is in this sense, that we talk of the Kannada padas of Purandara Dās (దాసర పదగరు) and the Tamil padams of Muttu Tāndavar. In the musical parlance of the modern

period, the term is restricted to the type of composition which belongs to the sphere of dance music and which treats of the varied aspects of $n\bar{a}yaka-n\bar{a}yaki$ relationships. Although strictly a dance form, yet the pada is sung in concerts of art music, on account of its musical excellence. To understand a pada aright and to enter truly into its spirit, one must have some knowledge of the $n\bar{a}yaka-n\bar{a}yaki$ (lover and the beloved) lakshanas

One of the outstanding features of Indian culture is the development of the idea of sringara to a degree of perfection. This accounts for the profusion of songs on the love theme In fact there are as many songs on sringara as on bhakti (devotion). These two themes provided a fund of material for the Indian composers to draw their inspiration from. The characteristics of various types of nayakas and navakis are described in minutest detail in the standard works on the subject. There are names given to the different types of nāyakas and nāyakis. Before singing a pada, one should visualise before his mind, the situation in which the pada is sung, by whom it is sung and to whom it is addressed. There are padas sung by nāyakas, nāyakis and sakhis. Kshetrajna, the greatest composer of padas, has composed padas for almost all the possible situations conceived of in the sringāra sāstra.

Whereas the kirtana seeks to reach god through praise, the pada seeks to attain the goal through love. The madhura bhāva method of approach to god is one of the primordial concepts of the Hindu mind. The union of the individual soul with the universal soul, the poetic conception of love, the ideal of spiritualized love, the sufferings of love, the expectation of happiness or the failure to realise the goal are some

of the themes found in the padas. The bhāva of the dhātu and the bhāva of the sāhitya balance each other and contribute to the unity of the composition. The sahityas of some padas contain far-fetched ideas. Most of the padas treat of gaurava sringāra (dignified love).

The doctrine, that the worship of God in the nāyakanāvaki bhāva is one of the sreshta mārgas (dignified methods) found great support during the medieval period and the earlier part of the post medieval period. Padas were composed in profusion mostly during these periods. All pada compositions admit of a dual meaning: the outward sringara meaning and the inner philosophical meaning (bahir sringāra and antur bhakti). The characters: nāyaka, nāyaki and sakhi stand respectivly as the equivalents of the Lord (Paramatma), the devotre (Jivatma) and the Guru who leads the devotee on to the path of mukti (liberation) by his sage counsel. The Gita Govinda of Javadeva which is the earliest work of acknowledged merit in this direction, served as a beacon-light to many composers of padas. There is a belief that Javadeva re-incarnated himself as Nārāyana Tirtha and still later as Kshetrajna. to write on the same theme, but in different forms.

The feelings and experiences of a devotee in quest of God and the feelings and experiences of a woman, yearning for the nāynka of her choice are corresponding ones and these are immortalised in the padas. The language though simple, is pregnant with meaning.

Whereas the Telugu padakāras chose Krishna as their hero, the Tamil padakāras chose Subrahmanya instead. There are padas of a purely sringāra nature which will not admit of any philosophical meaning by any stretch of imagination. There are also the satirical padas and humorous padas.

The padas of Parimalaranga contain rhetorical beauties like yamakam (Sāranganayanaro). The humorous padas of Sārangapāni contain many popular sayings. He has written many padas on other themes as well. His \overline{I} simala harinakshi ఈ సీమల హరిణాక్షి (Kalyani - Adi) contains the names of some ragas. The pada Avāluganti mātala ఆనాలుగంటి మాటల (Saveri - Triputa) contains the names of herbs. Padatinestamu పడతినేస్త్రమం contains the names of trees. Kadapadāti rāniya కడపరాటిరాస్త్రీయ (Pantuvarali-Adi) contains the names of places. Varakanyā tilaka పరక్షాత్రిలోకి (Gaulipantu - Jhampa) contains the names of medicines. Kankanamu gāttinādu కంకలము గటినాడు (Gaulipantu - Adi) contains the nāmes of jewels.

The pada has the sections:— pallavi, anupallavi and charana. There may be three or more charanas. There are no sangatis and no terse sanchāras. Sangatis if found, are only later introductions. The music is slow and dignified and flows in a natural manner. Its diction is simple. The piece is replete with rāga bhīva and a sustained balance is maintained between the words and the dhātu throughout. The charanas have the same music. Colloquial words figure in the sāhitya—The signature of the composer may occur in the pallavi, anupallavi or the last charana.

In many padas it will be found that the music of the anupallavi repeats itself in the second half or the last quarter of the charana, according as the charana is twice the length, or four times the length of the anupallavi. $D\bar{a}rijuchu$ chunnadi in Sankarābharana and Aligite $bh\bar{a}gyam\bar{a}ye$ in Huseni stand respectively as examples of these two types. In a few padas, the music of the first half of the charana is found to be the same as that of the pallavi. E $m\bar{a}ta$ $l\bar{a}dina$ in Yadukulakāmbhoji may be cited as an example.

Thus from the point of view of the dhātu, padas may be classified into:—

- Where the music of the charana happens to be the sum of the music of the pallavi and anupallavi.
 - Where the music of the anupallavi alone is repeated in the charana.
 - 3. Where the music of all the three angas is distinct.

As for the gānakrama of a pada, it is the same as that for a kirtana with the divisions, pallavi, anupallavi and charana. But in the case of padas like Yālane vānipai (Kāmbhoji) and Ayyayyo vegotāyene (Nādanāmakriya) it is usual to begin with the anupallavi. The anupallavi followed by the pallavi gives a *completed idea and this is a positive advantage from the listener's point of view. In addition, the music of the anupallavi is relatively brighter, inasmuch as its dhātu embraces the notes of the upper tetrachord and a few notes of the higher octave. This in part serves to relieve the monotony of the slow-time music characteristic of the pada.

^{*} This procedure is sometimes adopted even while singing kritis like Mariyadagadura (Sankarabharana) and Ela ni daya radu (Athana) and for the same reason.

Svarasthāna pada is a composition wherein at the commencement of each āvarta, the svarākshara beauty is met with. Sārangapāni's well-known composition in Kalyani rāga, Adi tāla, beginning with the words: Dāni prāyamu padārendlu is an example.

Group padas. Just like group kritis, there are the group padas. The classic instance is the Vijaya Rāghava Pancharatna, a set of 5 padas composed by Kshetrajna in honour of Vijaya Rāghava Naik of Tanjore, a great patron of music in those days.

The names of some of the prominent composers of padas, their signatures and the languages in which they have composed are given in the following table:—

Table XV

Composer's name.		Sign at ure.		Language.
Kshetraya		Muvvagopāla		Telugu
Sārangapāni		Venugopā[a		Telugu
Muvvalur Sabhāpati Iyer	}	Rajagopāla		Telugu
Ghanam Sinayya		Mannāruranga		Telugu
Subbarāmayyar	•••	Muttukkumāra		Tamil
Ghanam Krishnayyar	w	Muttukkumāra o the equivalent	$^{\mathrm{r}}\}$	Tamil
Kavi Kunjara Bhārati	}	Kavikunjara		Tamil

Other prominent comoposers of Telugu padas are:—Kārvetnagar Govindasāmiah, Pedda Dāsari, Parimalaranga, Kastūriranga, Yuvaranga, Merattur Venkatarāma Sastri, Sobhanagiri Vāru, Ghatapalli Vāru, Bollapuramu Vāru, Jatapalli Vāru, Inukonda Vāru, Sivarāmapuramu Vāru, Venangi Vāru, Mallikārjunudu, Virabhadrayya and Kavi Mātrubhutayya-

Māmbazha Kavirāyar has composed beautiful padas in Tamil.

Javali

Contrasted with the padas, which are songs of divine love or earnest and respectable love, are the $j\bar{a}valis$, which are songs treating of light love. They are songs of an erotic nature. The bright, attractive and catchy music in which they are clothed is mainly responsible for their popularity. The music is generally in madhyama kāla. Jāvalis are in common rāgas and tālas. Some of them are in attractive desya rāgas like Pharaz, Janjhuti, Kāfi,Behāg and Hamirkalyāni. There are jāvalis sung by the nāyaka, the nāyaki and the sakhi. The nayika-nayaka conventions bereft of their dignity to some extent, are seen in this form. The language is usually colloquial and sometimes obscene.

The Jāvali had its birth in the nineteenth century. The word jāvali can be traced to the Kannada word jāvadi, which means a kind of lewd poetry. The fluency of musical flow is a characteristic feature of jāvalis. These love lyrics are clothed in a lighter and popular type of classical music. The deep and penetrating character of the bhāvas and dhātus, so characteristic of the pada, is absent in this form. Some jāvalis

have sangatis- A few musicians occasionally sing kalpana svaras for this amorous form. There are javalis in Telugu and Kannada. This form corresponds to the ghazal of Hindusthani music.

Whereas the padanāyaka is a dignified character, no such convention is attached to the navaka in javalis. The theme of a navaki pining for the lover of her choice is there but both are human characters and are actuated by human desires and motives. The sāhitvas of jāvalis do not admit of the dual interpretation, agapporul (அகப்பொருள்) inner meaning and purapporul (புறப்பொருள்) outward or apparent meaning, so characteristic of the padas and wherein human nāyakis and div'ne nāyakas figure-

Some jāvalis like Pāripovalera (Bilahari—Rupakam) of Pattābhirāmayya contain rhetorical beauties. Sivarāmayya has composed a javali introducing sentences and phrases in English amidst Telugu words, and without offending the rules of prosody. The following relevant portions of the composition will bear this out :-

Kharaharapriya - Adi Pallavi. Oh my lovely లలనా - ఏలెనే పామ్మంటి ॥ Charana.

2. ఇటువంటి step, is it fit to take? sit a while here - let me convince you !!

3. ఎహరి పద్దను don't be angry శివరాముని పదముల పాడు॥

The javali has the sections: pallavi, anupallavi and charana. There may be one or more charanas. Some jāvalis 15

do not have an anupallavi. The charanas have the same dhātu. In a few jāvalis, the music of the charana is found to be the same as that of the anupallavi (Ex. Innālla valegāde -Pharaz). Where the length of the charana happens to be twice that of the anupallavi, the music of its latter part will be found to be the same as that of the anupallavi.

The ganakrama of this form is the same as that of a sogn with the sections: pallavi, anupallavi and charana.

Besides Dharmapuri Subbarāyar (mudra: *Dharmapuri*), Pattābhirāmayya (mudra: *Tālavanesa*), Chandrasekhara Sastri of Bangalore (mudra: *Bālachandra*) and Bellary Rājā Rao (mudra: *Tirupatīsa*), Patnam Subrahmanya Iyer, Sivarāmayya, Rāmnād Srinivasa Iyengār and Venkatagiriyappa of Hyderabad have composed jāvalis.

Daru

Daru (東西 台灣) is one of the types of compositions belonging to the sphere of applied music and figures in operas and dance dramas. It may be on a love theme or on a historical or puranic theme; it may also be in praise of a patron. The music is ordinarily in madhyama kala. There is a profusion of words in the sāhitya. Arunāchala Kavi rāyar's darus figuring in the Rāma Nātakam are a class by themselves. Each daru contains a tamil proverb. Annāswāmi Sāstri's "Kāminchi yunnadira కామంచి యువ్వనిలా" (Kedāragaula raga, Rūpaka tala) in praise of his patron, the Zamindar of Udayarpalayam, is a well-known daru.

The word daru can be traced to the ancient form, dhruva. The pravesika daru or the entrance song in dance dramas is always a beautiful composition. Whereas kirtanas are songs in praise of God, darus are songs narrating a part of a more or an episode.

The darus have the sections: pallavi, anupallavi and charana. Some of them are in couplets or quatrains. Some darus have jatis or solkattu (Gfaissale). The presence of a number of charanas, the charanas being sung to the same dhātu is a characteristic feature of darus. Some musical dialogues are composed in this form. Merattur Venkatarāma Sāstri has composed some beautiful darus in Telugu.

Jakkini darus are interesting compositions. The mātu of the first section consists entirely of jatis and we come across sāhitya in the second part. The occurrence of madhyama kāla passages adds liveliness to the piece. These compositions belong to the medieval period and we find in some of them, rare time-measures like Kuru jhampe O | 5 | 3 (10 aksharakālas for an āvarta).

Oradi kirtanai (ஓரடிக் கீர்த்தண), Oradi padam (ஓரடிப் பதம்) and Oradi daru (வநடி தரு) are long forms of the respective types and belong to the realm of applied music. These are Tamil forms and have the divisions: pallavi. The characteristic feature of anupallavi and charana. these compositions is the presence of unduly long charanas. Excepting for the concluding part, the remaining padas of a charana are sung to the same dhatu. Since the interest of the form centres mainly round its sahitya, the repetition of the same dhatu does not bore a listener. The charanas of some darus have madhyamakāla sāhityas. Long narratives, picturesque accounts of the glories of the cities of ancient India and description of battle scenes are fit themes for these long forms.

The ganakrama of the daru as well as the above three forms is the same as that of a kirtana.

Tillana

The $Till\bar{a}na$ is an adaptation of the desya type, $tiritill\bar{a}na$. Its tempo is usually madhyamakāla and the music is brisk and lively. The $m\bar{u}tu$ consists of jatis interspersed with svaras and ordinary words.

This lively form has the sections: pallavi, anupallavi and The sections have different dhatus instances of tillanas with a pallavi and anupallavi alone or with a pallavi and charana alone. Such compositions are as complete as the dvidhātu prabandhas, ugābhogas and kritis with samashti charanas. The pallavi and anupallavi usually consist of iatis and the charana of words, solfa syllables and jatis Some tillanas have beautiful sangatis. This form figures in the post-pallavi part of a concert programme and invariably in dance concerts. It is usual for a Harikatha performer to sing a tillana immediately after the introductory part or the purva pithika and before the commencement of the katha proper, in order to create an atmosphere of liveliness the course of his discourse, the Bhagavatar finds that a section of the audience has gone a bit drowsy, he would reestablish the atmosphere of liveliness by suddenly plunging into a tillana of quick tempo.

The ganakrama of a tillana is the same as that of a composition with the divisions: pallavi, anupallavi and charana.

The tillāna, Gauri nāyaka (Kānada raga—Simhanandana tala) of Mahā Vaidyanātha Iyer is a scholarly composition. The entire composition is in two āvartas, the first āvarta consisting of words and the second of jatis. The Kamba Ramayana tillana of Kundrakkudi Krishnier is also a scholarly composition.

Jāvalis and tillānas are examples of smaller forms and will not take more than four minutes to perform. They may be in quick tempo or medium tempo.

In addition to the composers referred to above, Virabhadrayya, H. H. Swāti Tirunal Mahārājah of Travancore, Pallavi Seshayyar, Mysore Sadāsiva Rao, Patnam Subrahmanya Iyer and Ramnad Srinivasa Iyengar are some of the great composers of this type of composition.

Tillāna daru is a composition like the tillāna with the angas: pallavi, anupallavi and charana. But the major portion of the mātu consists of words after the model of a daru. Krishnaswamy Ayya's Tillāna daru in Surati raga, Adi tala, beginning with the jatis "Nādiri dāni tondari dāni" is an excellent example.

CHAPTER VI

FOLK MUSIC

Few countries in the world can claim to have developed a system of art music. But all countries, including those inhabited by aborigines have folk music and folk dance. Folk music and folk dance have a distinct place in the cultural heritage of a country. They play an important part in the life of the common folk. They come through anādi sampradāya. They developed spontaneously. The folk music of all countries possesses certain common characteristics. Intended as they are for being sung by rustic folk with untrained voices, their compass is limited. They are characterised by simple music and easy rhythm. Folk music is older than art music.

Under folk music is included all the songs that do not strictly come within the sphere of art music. Folk music comes mostly through unknown authorsh!p as opposed to art music which is the contribution of known vaggeyakaras. Folk music is the foundation upon which the later classical music is built. Tyagaraja amongst classical composers has done a distinct service to South Indian Music by immortalising many folk tunes current in his time, in his operas, Divyanāma kirtanas and Utsava sampradāya kirtanas.

Folk music, called variously பொதுஜனகானம், பாமரஜன காணம், ராட்டுப் பாட்டு, ராடோடிப் பாட்டு, పறுపాటలు and ్గామ్యగానం is the music of the dumb millions of villagers. It is the privileged possession of the masses of men and women of a country. It affords endless solace to the weary farmer and the labourer when they return home afer a eay's hard toil. It is the music which gives infinite delight and pleasure to the housewife and the householder It is the music which is sung daily in the homes of hundreds of millions of men and women, old and young. It is the music of the masses. It is these rustic, uncouth village songs that have a pedigree longer than that of classical music Folk songs have a charm, all their own and please as the moment we hear them. As examples of simple beautiful melodies, they remain unsurpassed. For a proper appreciation of classical music, one needs to know its science. Classical music is generally confined to the metropolis and to some important towns and centres. Occasionally we hear classical music even in rural parts, but such parts always happen to be either musical centres or are connected with the name of some illustrious composer or musician who flourished there at a

not far off date. To listen to folk songs in their pristine purity, one should go to villages removed some 50 to 60 miles away from the railway station, or to places that have not yet succumbed to the influences of modern civilisation. Classical music is essentially intellectual music and is the music of the upper ten thousand.

Folk songs are perhaps the one means of discovering the real feelings and ideas of a people. Verses are added to, or subtracted from, as new ideas come in and old ones pass away. The up-to-date inner feelings of a people always find expression in their folk songs. Although these songs never rise to the level of set literature, yet they are the faithful reflection of all popular sentiments and beliefs.

There is a profusion of folk songs in the South Indian languages. Their dhātus or musical settings have a peculiarity of their own. With the exception of the prati madhyama (tivra ma or F sharp) all the other notes of the gamut figure in them. Since the notes are, in most cases, sung in a plain, unadorned manner and since the compass of most of the tunes is limited, it is not possible to assign specific ragas to these songs. Some songs are very crude, uncouth and primitive and comprise only three or four notes. But marriage songs and folk songs of a refined mature are in well-known old and popular ragas. The Kuranji raga has its origin in in the kuram songs. Some songs are literally packed with words. The music and the sahitya being simple, there is no place for sangatis (variations) and vowel extensions. The varek gamaka (grace) is present in some songs. compass of most folk songs embraces the upper tetrachord of the lower octave and the lower tetrachord of the middle octave. Songs are mostly in couplets and quatrains and the

division into pallavi, anupallavi and charana is noticed only in a few instances. Of the time-measures, Adi, Rupaka and Chāpu inclusive of the Misra, Khanda and Tisra varieties are frequently met with. Songs in tisra gati are also met with. Though many songs begin in sama graha, songs in the anāgata graha are not uncommon. The tunes of the songs used in sorcery, witch-craft, demon worship and Kāli worship are of an awe-inspiring character.

The theme of a folk song is never serious and the language used not of a high order. The laws of prosody are surprisingly enough adhered to. Some folk songs teem with rhetorical beauties. The fantastic antya prāsas present in a few songs, add to their humour and general effect. So. etimes we come across songs in the andādi (அக்காதி) style. In South India, there is a folk song for every event in life.

The ideas in the sahityas of some folk songs are highly suggestive and thought provoking. There is the famous story told of the great Tamil poet Kambar, that one evening he heard the men working on a well sweep or picottah (ஏற்றம்) sing a song and as the sun was sinking in the western horizon they stopped with the line: முக்கிலியே மேலே, தாங்கும் பனி ஃரே (On the leaf of the bamboo tree, the sleeping dew drops). The poet was wondering what the succeeding line could be. He brooded and brooded and nothing struck him. His curiosity was so much roused that he resolved to spend the night in the open and wait for the morn, when the men would come back for the work. The morning came and the workmen, fresh with vigour resumed their song. They continued, முக்கெலி‰ மேலே தாங்கும் பனிஃரே, தாங்கும் பனிஃரை வாங்கும் ■ STAC (the sleeping dew drops, disappearing before the sun). On listening to the second line, Kambar was filled with amazement and wondered that the logical idea contained in the second line did not strike him. The popular saying: ອຸກຸກປ່ ພາເພື່ອເຮົາ ສຸສິກຳປ່ ພາເພື່ອເຮົາ (There is no counter-song, to a well sweep song); has come into existence since that incident.

The folk songs of South India are a treasure-house of historical and sociological information The occupational songs, tribal songs, marriage songs, worship songs and ballads especially contain a mine of information. Songs relaing to palmistry and astrology and stanzas relating to the curative properties of herbs and herbs useful for curing narticular diseases are interesting. On the lighter side. we have the humorous songs, teeming with meaningless alliterations, fantastic rhymes and lazy colloquialisms. The unconnected nature of the topics dealt with in the interminable verses of folk songs is due to the fact that from time to time new verses on current events and incidents have been composed and added. For instance, in the Muttu Virāyi Pattu there is a stanza containing a reference to the Whiteman's money; in the Muttalamman Pattu there is a reference to the bamboo bobbins and links of a cotton mill.

In addition to being a stimulant to workers, occupational songs serve to regulate the work by their rhythm. When the amount of work turned over during the duration of a bar or āvarta is known, it is possible to calculate the total amount of work that will be turned out at the end of the song. For example, imagine a huge log of wood being pushed by a batch of workers from one place to another. Simultaneous push by all, at the precise moment is very important for the successful accomplishment of the task. The tune used in

such cases furnishes the clue to the moment when they should all apply force.

In the following simple tune, all the workers simultaneously push the log when the two underlined notes (shadja) are sung:—

Kharaharapriya notes - Adi tāla (Tisra gati).

4	0	0
S, R, G r S, - S, R, G r S,	<u>s;;;;</u>	<u>s;;;;;</u>

From the distance travelled by the log in the space of one avarta, it will be possible to say when the log will move on to the required place. Rowing songs wherein the oars are dipped into water by the crew at regular intervals and pounding songs wherein the pestles are lowered at regular intervals to crush the grain are other instances of songs for concerted action.

Labour songs serve to relieve the dullness and monotony of the work and also lightens the strain to some extent. The sāhityas of some of these songs deal with the details of their time-honoured occupations like mat-making etc.

Some folk tunes have specific names. When such a name is mentioned on the top of a song every one knows how to sing it. Such names as Anandakalippu, Nondichindu and Lāvani may be mentioned in this connection. Even in cases where two or three different varieties of tunes exist under the same name, the metre and the structure of the song will give the clue to the particular tune that is intended.

The rural inhabitants of India are as proud of their folk music as their brethren in Bavaria or Ireland. The instruments used by the rustic folk for accompanying their music and dance are crude ones. They are mostly percussion instruments and wind instruments. Stringed instruments like the Nanduni and Vina kunju are used ou the west coast.

The catchy nature of folk tunes has attracted the attention of many a classical composer. They wrote their own sāhityas for those tunes and thus contributed to the immortality of those tunes. The names of Tyāgarāja, Gopālakrishna Bhārati and Rāmaswāmy Sivan may be mentioned in this connection. Many folk tunes have found a place in Bhajana songs.

Classification.

From the musical point of view, folk songs may be classified under two main heads:—

- Those of a rustic nature—e,g., the agricultural, craft, and occupation sangs.
- Those of a refined nature—e.g, the puranic songs and marriage songs.

Songs of the former class are mostly found in rural parts and are current amongst the lower strata of society. The music though crude is nevertheless charming. Songs of the latter class have a somewhat polished music and are in some of the well recognised ragas. The Padyam (பத்யம்), Lāli (வாலி), Nalangu (தலைக்கு), Oonjal (ஊஞ்சல்), Odam (தடம்) and Suvvi (கூறுக்கு) are all instances of this class.

Amongst the Badagas of the Nilgiris, one comes across genuine examples of primitive music. There are folk songs intended for being sung by :-

(1) Individuals, (2) Groups and (3) An individual and a group alternately. Apt choric phrases for the group will be found in this third case.

There are folk songs intended for being sung by men alone and women alone and also songs to be sung by both of them.

From the point of view of their subject matter, folk songs may be classified into:—

- 1. Moral Songs.—Teaching morals and principles of ethics and the way in which one should conduct oneself in society.
- 2. Philosophical and proverbial songs.— Teaching the philosophy of life and containing adages, old proverbs and sayings of great sages.
- 3. Ceremonial rongs.— கோம்புப் பாட்டுகள், சடந்குப் பாட்டுகள், Songs sung on occasions like birth, nāmakaranam (naming ceremony), cradling, marriage, death etc.

The Badaga and Coorg songs of this class are especially worthy of mention.

4. Labour songs.—Under this head come the occupation and craft songs, milkmaid's songs, songs of the cartpullers and drawers of water from wells for irrigation purposes and generally the songs of the working classes. The barge songs (பட்டோட்டிப் பாட்டுகள்) and the Malabar boat songs come under this group. Songs of this group are generally in the vulgar dialect. The pestle songs (உலக்கைப் பாட்டு) and the Vallaippattu (காசோப்பாட்டு) sung by women while pounding the grain are well-known,

The music of the *Doli* bearers on the Tirupati Hills, which consists of only three notes, is an interesting sxample under this group, and centains traces of primitive music.

- 5. Agricultural songs.—Under this head, come the songs relating to rainfall, songs relating to the various seasons of the year and songs sung on the occasion of the sowing of seeds and planting of crops and the harvest songs. The (உழக்திப்பாட்டு) ploughwoman's song, பண்ணேப் பாட்டு, விவசாயப் பாட்டு, கடவுப்பாட்டு, எ ந்றப் பாட்டு and முளேப்பாட்டு come under this group. In the wheat plains of the North, singers and drummers are engaged during harvest time to perform. The labourers working to the accompaniment of music and rhythm turn out more work.
 - 6. Cradle songs.—Mothers' songs (Iullabies) composed for and sung to children. There are many such swing songs (ஊசல் அல்லது தாலாட்டு) in the South Indian languages and most of them are either in the Nilāmbari raga or in the Anandabhairavi raga.
 - 7. Devotional and Worship songs.—Songs of prayer and songs in praise of the presiding deities of villages.

The Sopānam songs of the west coast and the Pujārippattu (புசாரிப் பாட்டு) and the various songs sung in Māriyamman and Kāli temples are examples.

8. Tribal songs.—Every tribe in India has its own characteristic song which relates amongst other things the origin and history of the tribe, its great ancestors, its hoary traditions, its time-honoured profession etc. etc. These songs consist of a series of stanzas and the tribes take a patriotic delight in singing them. In fact on the occasion

of important annual celebrations, the tribal song is given precedence over others.

- 9. Craft songs.—The sahitya herein relates to the technique of their calling, like the process of mat making etc.
- 10. Historical songs.—These are in the style of the ballads and are of popular interest. Their themes relate to historic events of great significance. Raja / esingu songs, Bobbili Pāta, the powādas of Mahārāshtra and songs about the conquest of India by the British are only too well-known.
- 11. Epic and Puranic songs.—These are songs celebrating the valorous deeds of the great epic and puranic heroes like Rama, Krishna and Murugan. There are countless numbers of songs of this type current amongst the masses. Songs on heroic themes have a powerful appeal.
- 12. Songs in praise of local heroes—Every important village has its own hero and there are songs in praise of such heroes. The *Umayyan pāttu* and the *Chandana Devan pattu* are well-known examples.
- 13. Congregational Songs.— Songs for groups: the Kummi (கும்மி) and Kolāttam (கோலாட்டம்) songs.

There are various types of kummis ranging from the simplest to the most complicated. The songs for Pinnal kolattam are interesting.

- 14. Riddle songs.-- (புதிர்ப்பாட்டுகள்) which present intelligent problems for solution during leisure hours.
- Satirical songs.— பரிகாசப்பாட்டுகள் and the ஏசல்.
 The satirical songs sung by the lady members of the bride's

party and bride-groom's party during marriage dinners provide a good deal of mirth and merriment. Women skilled in singing such songs (**iuo*** \(\omega \in \omega

- 16. Songs for games.— The Kazhakkodi and the ammānai songs (songs for a game with three wooden balls.)
- 17. Songs relating to cures of ailments.— Remedies for the various ailments and the curative effects and medicinal properties of herbs are mentioned in these songs.
- 18. Songs figuring in folk dances, folk dramas and folk festivals.— The valandānai and oyil of Pudukottai, and pallu, the songs of the gipsies, wandering minstrels and fortune tellers, the songs heard during the javandarai festival, the music of the nondi nātakam, kuluva nātakam and the kuravanji nātakam (dance drama staged in temples), the songs figuring in the kaikotti kali and tiruvātira kali of Malabar, the gobbi dance, the garba dance of Guzerat, the Rāsa of Bengal and the songs sung during the performances of bommalāttam (மரப்பானை கூற்ற or puppet show) and torpāvaikkuttu (marionette show or show with leathern puppets) are all interesting.
- The Arti songs of the different provinces of India have fascinating melodies.
- 20. Miscellaneous:— Under this head come all the comic songs, baffoonery songs (ச்சாமாளிப் பாட்டு, விறைதேப் பாட்டு, வேடிக்கைக்ப்பாட்டு), musical dialogues and the various popular reels and jigs. The spicy humour contained in some of these songs will send listeners into roars of laughter. The buffoon song "முன்று மூணாகிகுகே மூணுகுகும் வெட்டியைக்

Graw" is known throughout Southern India. The musical dialogue between a kuravan and kuratti beginning with the words:—"Arupattu nālu muzham" (அறும்ற நாறு முழம்) is interesting both on account of its catchy music and its crisp ideas. The satirical extempore songs of the palanquin bearers on the hills having a sharp revenge on stingy employers are only too well known. The Themmāngu (Thenpangu is the more correct term), Teppān, Lāvani, Kuram, Odam, and the other 'Every day songs' of the unlettered folk which have a mere ephemeral existence (often a few months or sometimes a few years) and then sink into oblivion like "Sri Rama Chandirane" and "Andī Pandaram" also come under this group. Songs on nature themes (இயற்கைப் பரட்டு) also exist.

Chindu is a highly popular form of folk music. It consists of several stanzas. The music of the different stanzas is the same. There are several well-known chindus having distinct tunes of their own. The Kāvadichindu (pilgrims' song), Nondichindu, Surul nondichindu (கருன் கொண்டிச்சிக்கு), வண்டிச்சிக்கு and the Vazhinadaichindu (வழிகடைச்சிக்கு) are some of the varieties. The last mentioned type helps one to get rid of the tedium of journey.

Characteristics of Folk Songs,

- 1. The musical range of the folk songs is generally within one sthayi (octave) and it is so, because they are intended to be sung by village folk who rarely have the opportunities to develop the compass of their voices by the practice of technical exercises.
- Songs in the prati madhyama ragas and apurvaragas are rarely met with.

- 3. They are very simple and uncultured in their poetical form.
 - 4. The theme chosen is often commonplace.
- 5. The music is simple, homely and catchy and impresses the moment one hears it.
- 6. Songs are generally in stanzas, each stanza having the same music. Occasionally there is the division into pallavi, anupallavi and charana. Songs with these divisions must have come into existence only during the last five hundred years.
- 7. Sangatis or variations and gamakas and other technicalities generally speaking, are absent. The varik gamaka is however found in some songs.
- 8. A good number of songs are in sankirna ragas and in very simple talas or time-measures. Some of the recognisable ragas in folk music are Anandabhairavi and Nilāmbari; and Nishādāntya, Dhaivatāntya and Panchamāntya ragas like Nādanāmakriya, Punnāgavarāli, Kuranji, and Navaroj.

Primitive songs when heard give the impression that they are being hummed to some inarticulate syllables.

The village folk have their own indigenous system of dance, with appropriate music. In addition they have their own crude bands consisting of metallic horns, bamboo flutes, castanets, sticks, cymbals and drums.

Music plays as important a part in the life of the common folk as in the case of the refined folk. Although folk music may not move a person and lift him up to serene heights and make him commune with Nature, it has nevertheless an unfailing charm. The wandering minstrels of India have kept alive certain classes of folk songs. Singing games like

the ammānai, provide a good pastime. The kolattam performances given by young trimly clad girls, with their sticks, about a span long and painted red and yellow are a treat to the eye and the ear.

Girls and ladies playing kolāttam are depicted in the sculptures in (1) the mantapam in front of the Nataraja shrine at Perur, (2) the southern outermost prākāram (corridor) of the temple at Rāmesvaram and (3) the Achutappa Bhupāla mantapam at Avadayārkovil. The graceful postures of the performers responding to the partners on their left and right are worthy of special attention.

In folk songs, we come across pieces of varying grades of musical quality — from the simplest sing song tune, to the song almost bordering on art music. Nursery songs, agricultural songs (கார் மூட்டுகள் முதலியன்), purānic songs (புராணப் பாட்டுகள்), songs on village deities (கொட்டுகள்மாட்டு) and songs relating to pregnancy (மூனப்பாட்டு) and games of girlhood, shepherds songs, potters songs, and songs sung during husking of rice are instances of simpler folk songs of varying grades of musical quality. Some folk songs are literally packed with words.

The masses have been made familiar with puranic stories through the form, odom or kappal (¿ i o r ziui). The The Rāmāyana cdam is a well-known composition familiar to the ladies of the Tamil nādu. In the odam, the introductory part and the concluding part are sung in slow tempo and the bulky middle part called mudugu ((w&s) in quick tempo. The Rega odam (sns ¿ i is an interesting composition giving a catalogue of the well-known ragas. Some folk songs contain a wealth of religious philosophy. There are also martial songs.

CHAPTER VII

MUSICAL INSTRUMENTS

India possesses a rich variety of musical instruments. Almost all the types, representative of the stringed, wind and percussion groups are seen here. Gourds, bamboo, canes, reeds, jack-wood, black-wood, earthen-ware, the skin of sheep, calf, buffalo, varanus and silver, bronze, brass, copper and iron amongst metals are the materials used in the manufacture of musical instruments. The plant, animal and mineral kingdom have contributed their share in the making of musical instruments. Gamakas being the life and soul of Indian music, instruments like the svaramandala and yāzh (wný) which were not capable of producing gamakas, gradually fell into disuse.

The subject of instrumentation (i.e. the study of the characteristics of various instruments) is one of absorbing interest. Instruments of varying degrees of loudness, compass and tone-colour are met with. Instruments like the gotuvādyam provided with sympathetic strings and with facilities for the accurate adjustment of sruti are of interest from the accurate and physical points of view. The decorative work on some instruments contributes to their dignity and aesthetic appearance.

Classification

Musical instruments, are generally classified into :-

- Stringed instruments where the sound is produced by setting in vibration, strings.
- (2) Wind instruments, where the sound is produced by the vibration of a column of air in the tube.

(3) Percussion instruments where the sound is produced by the vibration of a stretched membrane or skin or a piece of metal or wood. In tāla vādyas, the sound is produced either by striking, plucking morsing or stroking the drum-head.

Stringed instruments, (also called chordophones) are the tata নন vādyas and wind instruments (also called cerophones) are the sushira মুনি vādyas. Percussion instruments of the drum class are called avanaddha স্বন্ধ vādyas (membranophones) and those of the cymbal and castanet varieties as ghana ঘন vādyas (autophones.) srādyās gad, మిజేవడ్డాని, ఆమాప ఆడ్డాన్ and ఉత్యేశపేవడ్డాని are the respective names for these four types of instruments, in Tamil.

I. Stringed Instruments are of three kinds :-

- (a) Those performed on by friction with a bow; ex. the violin, sārangi, dilrūba, bālasarasvati (tavūs or mayūri, மாசில்வாக்கம்) and esrāj.
- Rāvanāstram, the earliest bowed instrument known to human history had its origin in India.
- (b) The plectral instruments, where the strings are plucked by a plectrum or the fingers and played; ex. the vina, rudra vina, gotuvādyam, sitār (also called sundari the beautiful) svarabat, (the more correct name however is svaragat), sārode, nanduni, guitar, mandoline and harp. The drone instruments like the tamburā and ektār come under this group.

(c) Those struck with a hammer or a pair of sticks either mechanically or otherwise; as the pianoforte, svaramandala and the gettuvādyam.

Of the stringed instruments, some like the tamburā, tuntina, ektār and gettuvādyam are played on open strings and the rest like the vina and violin, stopped and played. The vina is an example of a stringed instrument wherein some strings are played as open strings (ex. the 3 tāla strings) and the rest stopped and played (ex. the four playing strings).

N. B.—Playing on onen strings means causing the entire length of the strings to vibrate all the time, as for instance while playing the tambura. Stopping the strings means causing a fractional length of the string to vibrate; for example when a finger is placed on the finger-board of a violin and the particular string bowed, the fractional length of the string from the bridge to the point of contact of the finger alone, vibrates.

The plectral and bowed varieties (where the strings are stopped) admit of two varieties:—

- (1) Those with a plain finger-board as the sarode and the violin, the strings being stopped by the fingers or by a piece of wood held in the hand as in the gotuvādyam.
- (2) Those with a finger-board with frets as the vina, sitār, dilrūba and tavūs.

The plectral instruments may again be classified into :-

(1) those wherein the left hand fingers are in direct contact with playing strings as the sitar and vina; and

(2) those wherein the playing strings are in contact with an intervening object or mechanism held or operated by the left hand; ex. gotuvādyam, bālakokil and bulbul tāra.

The plectral instruments may also be classified into those wherein a wire plectrum is used (ex. sitar) and those wherein a horn plectrum is used (ex. svarabat).

The piano and the bulbul tāra are instances of stringed instruments provided with a key-board.

II- Wind Instruments are of two kinds :-

- (a) Those wherein the wind is supplied by some mechanical contrivance, commonly a bellows. The organ and the harmonium are instances of this class.
- (b) Those wherein the wind is supplied by the breath of the performer.
- Here again, we have the mouth-blown and nose-blown varieties.

The mouth-blown varieties are of two classes: -

- (i) Those which are blown through vibrating reeds or tongues or mouth-pieces. The clarinet, oboe, nāgasvaram, mukhavina and the sanāi are instances of this class.
- (ii) Those wherein the wind is blown through orifices in the wall of the instrument, like the flute.

There are instruments under this head which have finger-holes like the flute and the nagasvaram and those which have no finger-holes like the gaurikalam, tiruchinnam, ekkalam, kombu, reed dulcimer, bhāri and the conch.

In the tiruchinnam, the mouth-piece is cup-shaped.

The snake-charmer's instrument, magudi (also called bhujanga svaram) is an instance of a compound wind instrument provided with a tune-pipe and a drone-pipe.

Wind instruments are either of the wood wind type like the nāgasvaram, clarinet or oboe, or of the brass-wind type, like the tiruchinnam and kombu (metallic horn).

III. Instruments of Percussion are usually time-keeping instruments. A few like the nagara and bheri are used in war. These two instruments were also used in the village look-outs in former times, to warn the villagers, whenever robbers and marauding plunderers were sighted at a distance. Some drums like the tamuku and parai are used by the State for publicity purposes.

To the class of drums belong the mridanga, tabala, nagāra, tavil, dolak, damaru, mardalam, suddha maddalam, udukkai, udal, davandai, and pambai.

Drums may be classified into :-

- (1) Those played by hand; ex. mridangam.
- (2) Those played by sticks; ex. damārum.
- (3) Those played partly by hand and partly by stick; ex. tavil.
- (4) Those which are self-struck; ex. the damaru and budubuduke. The instrument is rattled i.e., rocked to and fro, to enable the knotted end of the string to strike alternately against the two faces.

(5) Those wherein one side is struck and the other side is stroked; ex. the perumālmādu drum.

Drums may further be classified into:-

- (1) Drums with a single face.
- (2) Drums with plural faces.

The latter may be classified into:-

- Drums with a plain face as the udukkai and panchamukhavādyam.
- (2) Drums with complex faces i e. with two or three concentric rings of skin; as the mridangam and tabla.

The mridangam stands as the finest example of a double-faced drum with complex drum-heads. On simpler drums, characteristic rhythmic phrases or solkattu-patterns are played.

Several kinds of cymbals are in use. These are exclusively time-keeping instruments and are made of metal. The jālra is a good example. It is largely used in Bhajana parties and Harikathas. Larger cymbals (Brahma tālam) are used in temple ceremonies and bands. Different kinds of castanets are also common throughout India.

Percussion instruments may be broadly classified into:-

- (1) those with which a regular cross-rhythmical accompaniment can be provided in concerts; exmridangam, tabala, kanjira, tavil, dolak, ghatam and jālra; and
- (2) those wherein such a thing is not possible; ex. gongs, nagāra and bheri.

Tāla vādyas may be classified into:-

- (1) those which are indispensable in concerts like the mridangam or tavil or tabla. These are the pradhāna tāla vādyas.
- (2) those which can be used at the option of the performer or singer, like the kanjira, ghatam, dolak and conch. These are the upa tāla vādyas.

Tāla vādyas may again be classified into:-

- (1) those which can be tuned to a desired pitch; like the mridangam and tabla; and
- (2) those whose pitch is determined at the make, like the ghatam.

Of the time-keeping instruments, the ghatam and morsing are of special interest. The ghatam is the only rnythmic instrument without detachable parts and made of a single material. In morsing, the projecting tongue is plucked by the right hand and the mouth acts as the resonator.

Konugol is the art of reciting jatis in a pleasant manner. This type of rhythmic accompaniment provided by man is a peculiarity of South Indian music. In addition to the primary rhythmic syllables like ta, di, tom, nam, other euphonious and rhythmic syllables are used. The jatis are recited sometimes in a prosaic manner and sometimes in a musical manner. Konugol solos when rendered by melodious and impressive voices will be interesting to hear. Experts in this art are able to recite jatis even in the sixth degree of speed. This art affords plenty of scope for the exercise of one's creative faculty.

Concert Instruments in general may be classified into:—

- Sruti vādyas, which are instruments used only as drones; ex. the tamburā and the ottu.
- (2) Tāla vādyas, which are instruments used only as rhythmic accompaniments: as the mridanga, ghatam, kanjira, tavil, dolak, morsing, gettuvādyam, jālra, chiplā and silambu.
- (3) Sangita vādyas, with which musical pieces and rāga ālāpanas could be played; as the vina, violin, gotuvadyam, flute, nāgasvaram and jalatarangam (udaka vādyam).

All these three types of concert instruments are represented in the stringed, wind and percussion varieties. The following table gives examples for each of these:—

Table XVI

Variety	Used as	Examples		
Stringed	—tala vādva …	tambura and ektār. gettuvādyam. vina, violin and gotu- vādyam.		
Wind	tala vādya	ottu, sruti upānga and sruti box. conch. flute, nāgasvaram.		
Percussion	—sruti vādya —tala vādya —sangita vādya			

Of the strings which are used for stopping and playing music, the string which gives the highest note is always reckoned as the first string and the other strings in the decreasing order of pitch are numbered accordingly. In the vina, the strings are always kept in medium tension and played; otherwise, the pich of the strings will get altered, every time they are pulled or deflected for the purpose of producing a gamaka. In the gotuvādyam and the violin however, where the strings are not pulled aside for the production of gamakas, the strings are kept in a high tension.

Other systems of Classification.

From the point of utility, musical instruments are classified into:—

- (i) those used in concert music; like the vina, gotuvādyam, flute, mridangam and jalatarangam.
- (ii) those used in temple music; like the metallic horns, trumpets, •bhūri, kudamuzha (σμφη) and udal.
- (iii) those used in martial music; like the conch, dundubhi and bheri.
- (iv) those used in folk music; like the nanduni, nedun-
- kuzhal, kombu, potdrum and crude iron cymbals.

Musical instruments are either monophonous i.e. capable of giving only one note at a time (ex. human voice, flute ane nāgasvaram) or polyphonous i.e. capable of giving mord than one note at a time (ex. vina, violin and jalatarangam).

Concert instruments like the vina, flute and gotuvādyam enjoy the status of primary instruments; while others like

the violin and sārangi are mere accompaniments. Primary instruments are either performed solo or to the accompaniment of other instruments. Eminent violinists give solo performances on their instruments. The violin on such occasions attains the status of a primary instrument.

Evolution

Of the stringed, wind and percussion groups of instruments, the percussion varieties are the oldest. We come across wind and stringed instruments at somewhat later stages of human history. Before the highest type of the percussion group was reached, many forms of wind instruments had come into existence: and like-wise before the highest type of the wind instrument group was reached, many forms of stringed instruments had come into existence.

The following instruments illustrate roughly the main stages of evolution under each group:—

Percussion group:

- (1) Stone-gongs and rude castanets.
- (2) Metallic cymbals.
- (3) Xylophones.
- (4) Drums with an open frame e.g., thambattam, magudam and kanjira.
- (5) Pot-drums
- (6) Wooden drums (conical drums) with skin on one side,

- (7) Drums with skin on both sides like the dolak and tavil.
- (8) Drums capable of being tuned to a desired pitch as the mridangam; such drums have complex drum heads.

Wind group :—

- Horn, kombu, and long musical pipes without finger-holes.
- (2) Gourd pipes.
- (3) Reed dulcimer; pan-pipes.
- (4) Musical pipes with a few finger-holes.
- (5) Musical pipes of the flute species with 7 or 8 finger-holes.
- (6) Musical pipes with mouth-pieces as the nāgasvaram and sanāi,
- (7) Wind instruments with a key board; ex. the harmonium and the organ. These instruments are of European origin and are only a few centuries old.

Stringed group :-

- (Here the plectral varieties precede the bowed varieties).
- (1) Bow-string, pināka, and the harp.
- (2) The primitive lute.
- (3) Ektār and tuntinā with resonators.

- (4) Instruments performed on with a primitive bow like the Ravana hasta.
 - (5) Svaramandala.
 - (6) Vīna with movable frets (eka raga mela vīna).
 - (7) Vina with fixed frets e.g., the Rudra vina and the Sarasvati vina (sarva raga mela vina).
 - (8) Mahānātaka vina (gotuvādyam).
 - Bowed varieties of the advanced type: the violin and the sārangi.
 - 10. The mechanically plucked or struck varieties and provided with a key-board; ex. the harpsi-chord and the piano.
 - The remote ancestor of the piano, is the sata tantri vina of ancient times, played by a little hammer.

A detailed study of a musical instrument can be made under the following heads:—

- 1. Its name; significance if any, attached to the name.
- The main head and the sub-head under which it can be classified.
- Polyphonous or Monophonous.
- 4. Materials used in its manufacture.
- Its varieties. The nagasvaram for example, admits of the two varieties, timiri and bari.

- 6. Its construction and the names of its parts.
- 7. (a) If a chordophonic instrument, the number of strings used; of the strings used, how many are of metal or of gut or of silken thread wound by silver coil. The gauge numbers of metallic strings. The notes to which the strings are tuned. The strings that are stopped and the strings that are played as open strings. If provided with tala strings and sympathetic strings.
 - (b) If an ærophonic instrument, the number of its finger-holes. If it is a keyed (ex. clarinet), or a key-less (ex. Indian flute) instrument.
 - (c) If a percussion instrument, the number of drumheads, and if the heads are simple or complex. The dimensions of the drum-heads and if their pitch can be increased or decreased.
- 8. Its compuss.
- Technique and styles of play and the technical terms used in this connection.
- Possibilities in speed and limitations in the playing of gamakas.
- Whether used as a primary instrument or as an accompaniment or both.
- Whether a concert instrument, or one used in temple music, martial music or folk music.
- 13. Whether practised extensively or cultivated only by a few.

- 14. Places noted for the manufacture of the instrument.
- 15. Its geographical distribution.
- 16. Its origin and history. The various stages through which it passed through before reaching the final form. The names of the early pioneers and the later specialists in this instrument. The various works in which it is referred to.

Orchestra

One of the note-worthy events in the history of Indian concert music in recent times, is the development of the orchestra. Concerts by Indian orchestras have now become popular throughout India. The possibilities of orchestral music have however, not yet been fully explored.

Small orchestras in some form or other have been in existence in India from early times. We hear of the brinda gānam and vamsaka brindam in early literature. The naubat (literally nine performers) stationed in balconies over the arched gateways of cities, palaces, mansions, mosques and important mausoleums and tombs and the peria melam (the Tanjore nāgasvaram band) were later developments. It is recorded that Emperor Akbar, took delight in performing in the naubat. In all these cases, the instruments merely repeated the chosen tune or tunes in unison and perhaps occasionally doubled them in the octaves. The number of performers usually ranged from five to twelve.

But the idea of having a certain definite proportion in the number of stringed and wind instruments with a view to produce a beautiful, consolidated, pleasing and rich tonal volume, at the same time giving an effective and proper representation to the tone-colour effects of the different instruments is a thing of recent growth. Orchestral music is absolute music in its purest form. A classical piece like the Sahāna kriti, 'Giripai nela' of Tyagaraja may be heard respectively from a vocalist, an instrumentalist and an orchestra. Any rasika will immediately feel the enriched effect in the last case, on account of the various qualities of the tone of the different stringed and wind instruments constituting the orchestra.

Indian music is essentially melodic in its character, and melodic orchestration is therefore the only possibility if the purity of the raga system is to be preserved intact. There are compositions which are intended for being performed by orchestras. Select pieces of the classical composers might also be chosen and scored for the orchestra. The entire orchestra is in theory a single instrument and the conductor is supposed to play on that complex instrument. A piece rendered by the same orchestra but under the direction of two different conductors will produce different effects. conductor of an orchestra must possess plenty of musical imagination and a natural feeling for orchestral colouring. He must have an accurate laya gnānam and a strong memory and be thoroughly familiar with the pieces performed. He must possess a keen musical ear and be able to identify the tone colour of every instrument even while the full orchestra is performing. Lastly, he must be able to interpret the pieces. enter into the spirit of the compositions and work out the ahana, nava effects properly.

A singer takes a certain risk when he gives beforehand a programme of his concert, and includes in it such pieces as Nagumomu ganaleni (Abheri), Darini telusu konti (Suddha saveri) and Nājivādhāra (Bilahari). If by some accident he catches cold or suffers from sore throat on the day of the performance, he will not be able to do justice to pieces teeming with madhyamakāla sangatis. But in the case of an orchestral performance, there are no such problems. The performers go on playing the pieces mentioned in the programme sincerely and to the best of their ability. The surrounding environments and the whims and fancies of the listening audience have only a negligible effect on them.

On account of their strength, orchestral concerts are bound to have a mass appeal. Even the most difficult compositions can be made popular through orchestral renderings. The senior performers with a good degree of technique and creative faculty in them can play ālāpanas, niraval and kalpana svaras and keep to the orthodox kachcheri plan. The contrast of individual tone colour, the tonal balance and the harmonious blending of the tone colour of different instruments, all have a pewerful appeal. Besides, an orchestra can conveniently accommodate, three or four upa tāla vādyas. The audience get an opportunity to know something of the tone. colour, technique and possibilities of these upa tala vadvas. To listen to them is both an education and an entertainment. The upa tala vadyas can rightly find a place even in the ordinary kachcheri. The seating plan of the performers on such occasions presents an impressive sight. The presence of additional rhythmic accompaniments has a healthy influence on the mridangam player and he acquits himself much better. A feeling of earnestness and an anxiety to give their best are noticed in the performers on such occasions. The mridangam player instead of being worked right through, gets

his deserved share of rest on such occasions. The combined rhythmic harmony and the spicy rhythmical accompaniment of the upa tāla vadyas, while playing individually or collectively produces a delightful effect. Morsing is an interesting upa tāla vadya of the plucked type, and belongs to the monophonous group. Capable as it is of being tuned to the ādhāra sruti of the performer, it always proves a successful rhythmic accompaniment.

An orchestra is, in a sense a democratic institution. It gives opportunities for even second class performers to sit along with the first class performers and perform. The performers in an orchestra should always be mentally alert. They should quickly grasp and respond to the directions of the conductor. The performances of orchestras, which have no conductors to lead them, will be characterised by lifelessness and a deadly monotony. For orchestras of less than ten performers, there may not be the necessity for a conductor. For large orchestras, a conductor is absolutely necessary, both for keeping up the precision in rhythm and for reminding the performers of the correct sequence of sangatis, especially when long pieces like Darini telusukonti (Suddha saveri) and Najivadhara (Bilahari) are played. Performers need guidance because they play from memory and not with music sheets before them. To listen to a Sata vadya brinda gana will be a rare treat to the ear and an experience as well.

CHAPTER VIII

COMPOSITIONS

Mayamalavagaula — Matya tala.

Lakshana gita 15th Rāgānga rāga

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[Composer:—Fiddle Ponnuswamy

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II. Kambhoji raga—Adi tala	வே குடி
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அ. தரவோ வெலலாள் ஸ்.-தியாகேச ஐகத்ச ಆ. \$6் வூலைக்க தி - பு திர் கோகிர் U. \$ (1) 30011 101 101 101 101

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9	Yadukulakambhoji.			
	P, M, G, R, GR	S, P, D	. S R m	
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[Composer:—Pachchimiriyam ADIYAPPIAH.	a tala.	స. విరి <i>బో</i> ణ	73	3,50,55 13,50,55 14,50 14,	4. 58	.0		•		n s mgrs-ns	nne ko.
	IV. Bhairavi raga — Ata tala.	விரிபோணி நின்னே கோரி	மருலு கொன்னதார	S	சிரு நவ்வு மோமுன் *Chatussruti dhaivata.	اء	Pallavi	S, r N*D) -NS R, g - S R	· · · · · vi vi bo	greg R: - ggrg-mpd-mpgrs	ni nie.
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Anupallavi		
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da kshi. na dhva	ν8	ra ka

		nsrg-mp*dn snddpm-P	de va					p *dns.rgmp dpmdP.nn	nRsn*d-S,ndp-P,m
p*dns-rgmg-rgsr-n grs-n*dns	Sa mi Sri	grrs.snnddp.mndp.mgrgrs	Ra pa la go	, mgr-srn*d∥	<u> </u>	. Muktayi spara	rsub unsr.srss	umpp*d*d-nnb*d*d-mm	dddppm-n*dn-p*dn-mp*dn-srn*d mgrsr-nsr-rGmpd-mP*dns gr-S,rn*d (viri)

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nnd D.nddM,.ndpM,.dpm		(0)
gRGmpd-mPd-p*dn-*dnsrs	ngr-Ndpd	m P m · g r s r
n*Dn sgrg (chiru)		
Srg sr G R Nsr nsR		
S, r N n *d - G, R s - N, *D n	P, - *Dnsr	p*dns R;
dpgRr.n*drSs.mGr.pMg		•
r Gm - p dpm - n n d D n - d d p P m	gR-Gmpd	167
nsng·rmgp-mdpndn·pdmpgr	,	
gmpm-p*dns-nsngrg-nsnrsr ssrrgg-mggr-mgrs-ngrs-nr	nrsn dpdm	p*dnn S·nn
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grsn - Srg (chiru)		

CHAPTER IX

TECHNICAL TERMS.

- Adi guru, the first teacher who taught music in a systematic form and wrote for this purpose, the graded musical exercises: svarāvali, alankāras, gitas etc. (refers to Purandara Dās).
- Aditya, the name of the twelfth chakra in the scheme of 72 melakartas.
- Agni, the name of the third chakra in the scheme of 72 melakartas.
- Alpatva, a note sparingly used in a raga; (also see under trayodasa lakshanas.)
- Amsa, the note which brings out in bold relief the melodic entity of the raga; also referred to as jiva svara and rāga chhāyā svara. A raga may have two or more amsa svaras.

Anagata graha, a case where the tala precedes the music.

Antara marga, see under trayodasa lakshanas.

Apanyasa, see under trayodasa lakshanas.

Arohi, see under varna.

Atita graha, a case wherein the music starts before the commencement of the tala avarta.

Audava, see under trayodasa lakshanas.

Auduva, refers to the number of notes, five figuring in a raga; same as audava.

Avarohi, see under varna.

Bahutva, a note that is frequently used in a raga; (also see under trayodasa lakshanas.)

Bana, the name of the fifth chakra in the scheme of 72 melakartas.

Bhashanga khanda, the name given to the third section of a raganga raga lakshana gita, and which contains the names of the bhashanga ragas derived from that mela.

Bhava Hid. soul of expression in music.

Bhayakara, a corrupt form of ubhayakāra; vāggeyakāra or composer.

Brahma, the name of the ninth chakra in the scheme of 72 melakartas.

Chauka varna, a kind of varna (see under varna).

Chhayalaga raga, a raga wherein the trace of another raga is perceivable occasionally.

Chinna melam, (இன்னபேனம்) the group of performers figuring in a South Indian dance concert; sadir.

Chitta svara, a set solfa passage in the kriti and introduced as an extra appendage for enriching the beauty of the composition.

Datu svara दाइ स्वर, a pair of non-contiguous notes i. e., a pair wherein an intervening note or notes that can validly occur is deleted; thus the pairs: (a) p g (b) m r and (c) g s are datu svaras occurring in Sankara bharana. The number of intervening notes deleted in a datu svara may vary from 1 to 4. The notes constituting a datu svara may be related as samvādi svaras or anuvādi svaras.

Datu svara prayoga, a phrase containing dātu svaras. All conceivable dātu svara prayogas are not admissible in a raga. Only those which reveal the rāga bhāva are used and the rest ignored. In the viriboni varna (Bhairavi) the third āvarta of the third ettugada svara begins with a beautiful dātu svara prayoga: n s | n g | r mi g p | m d | p n |

- Desi sangita, the modern music prevailing in this land terrestrial music as opposed to celestial music.
- Disi, the name of the tenth chakra in the scheme of 72 melakartas.
- Druva rupaka, a variety of rūpaka tāla. A composition in this time-measure is set only in rūpaka tāla, but at the commencement of each section of the composition, therefare two drutas and two laghus followed by the usual rūpaka tāla āvartas; ex. the gita Areyānaka (Nāta raga).
- Dvi-anya svara bhashanga raga, a bhāshānga raga with two foreign notes; ex. Hindusthān Behag.
- Eduppu (கூட்பு), the equivalent of graha in Tamil; the starting point of music in the tala āvarta.
- Ekanya svara bhashanga raga, a bhāshānga raga with one foreign note; ex. Kāmbhoji.
- Ettugada svaras, the solfa passages figuring in the latter part of a varna. The concluding note of an ettugada svara passage is usually a hrasva svara; dirgha svaras and janta svaras will not be appropriate concluding svaras in such cases.

Figure, svara-group of a definite pattern.

Gana gita, the music which is the contribution of composers or vaggeyakaras. This is art music.

Gana-krama, the order in which the constituent angas of a musical form should be sung.

Gandharva gita, the music which developed spontaneously i. e., through anādi sampradāya (அதா இ மைபிர தாயம்).
This is older than gana gita.

Gayaka, a singer: vocalist.

Ghana panchaka, the traditional five ghana ragas:— Nāta, Gaula, Arabhi, Srirāga and Varāli.

- Graha, the starting-point or the eduppu (விப்பு) of the music in the āvarta.
- Graha, the note on which a raga commences; one of the thirteen lakshanas of a raga (also see under trayodasa lakshanas.)
- Heptatonic scale, same as sampūrna raga (having all the seven notes.)
- Hexa tonic scale, same as shadava raga ('having six notes).
- Indu, the name of the first chakra in the scheme of 72 melakartas.
- Jiva svara, a note which reveals the individuality of a raga. Such notes may or may not be nyāsa svaras. In bhashanga ragas even anya svaras may be jiva svaras ex Sāranga; (same as amsa svara and rāga chhāyā svara).
- Kalahastisa Pancharatna, a set of five kritis in Telugu in praise of Sri Kālahastisa, by Vina Kuppayyar.
- Kalpayishyamana melakarta, sec under kalpita melakarta.
- Kalpita melakartas, the name suggested by Venkatamakhi for the 19 melas (out of his 72) which were already in vogue and well-known. The remaining 53 melakartas were grouped under: Kalpyamāna— in the process of making i.e., becoming popular and Kalpayishyamāna—to be made hereafter i.e., to become popular at some future date.
- Kalpita sangita, music already made; refers to the compositions of vaggeyakaras, as opposed to manodharma sangita, which is music created extempore.
- Kalpyamana melakarta, see under kalpita melakarta.

Karnataka sangita pita maha, the founder of Karnatic music; refers to Purandara Das.

Katapayadi Sankhya, वटागारेगस्य — the formula which helps us to find the serial number of a melakarta when its name is given. Once the serial number is found, it is easy to give its lakshana. The formula is summed up in the phrases: kādinava कादिनव, tādinava टादिनच, pādipancha पादिणच, yādyashta यादाष्ट्र.

Kelikkai, a dance concert.

Koluppittal கொலப்பித்தல, see under konugol.

Konugol, the name given to the art of reciting jatis in conformity to a tala in a musical manner.

Konuppittal (கொனுப்பித்தல்) or Koluppittal (கொலுப்பித்தல்) is the practical art of reciting the jatis in the manner mentioned above.

Konuppittal, see under konugol.

Kovur Pancharatna, the 5 kritis composed by Tyagaraja in praise of Sundaresvara Swamy of Kovur. They are: Sambho Mahadeva (Pantuvarāli), I vasudha nivanti (Sahāna), Kori sevimpa rare (Kharaharapriya), Sundaresvaruni (Sankarābharanam) and Nummi vachchina (Kalyāni).

Kvachit prayoga, a note or a phrase sparingly used in a paga — opposite of bahula prayoga.

Laukika ganam (लोकीकगानम्), secular music.

Madhyamakala मध्यमकार or Tāna तान (also called ghanam) is a branch of creative music. In this style of raga development, the music is measured, though not into so many clear-cut avartas.

Madhyamakala sahitya मध्यमकालसाहित्य — the portion of

a kriti in madhyamakāla.

Mandra, see under trayodasa lakshanas.

Manodharma sangita, मनोधर्मसंगीत — Creative music.

Music that is performed in a concert is of two kinds:-

- (1) The performer sings or plays the musical compositions of great composers ie, he reproduces music which has already been created or composed.
- (2) The performer sings or plays extempore music —the music being the offhand creation of his own fertile imagination.

The latter is termed manodharma sangita or creative music and is of five kinds—

- (a) Rāga ālāpana, (b) Madhyamakāla or tāna,
- (c) Pallavi, (d) Svara kalpana and (e) Niraval.

Composing musical compositions is no doubt creative music, but here the composer has unlimited time at his disposal and is able to exercise a good deal of thought, judgment, attention and skill in perfecting them. In the instances of creative music cited above, the music sung is extempore and simply flows spontaneously.

Marga sangita, the name given to ancient music and which is said to exist in Heaven; celestial music.

Matu, (মান্ত) the sāhitya or the words of a musical composition.

The matu may consist of :-

- The ordinary spoken words, as in the case of the sahitya of a kriti, padam or javali.
- (2) The syara-letters so ri go mo pa dha ni interspersed with ordinary words as in a tillana.
- (3) The tila-solfa syllables or jatis like taka-tarikita naka-tom-janu etc. as in tillānas and kaivāra prabandhas.

(4) Phrases like a iya, ti iya, a iyam, vā iya as in gitas.

As a rule for every musical composition there is a matu. But compositions like the jatisvaram have no matu.

Misra raga, same as sankirna raga.

Muktayi svara, the solfa passage that occurs after the anupallavi in tāna varnas.

Musical fact. Any phenomenon or truth relating to music. That there are only seven svaras is a musical fact; that when a note and its octave or its fifth are sounded together, a concordant effect is produced, is a musical fact; that the vibration values of the notes, shadja and panchama bear the ratio 2:3 is a musical fact; that the fifth harmonic, antara gāndhāra is heard from a well-tuned tambura is a musical fact.

Muttamil, (முத்தமிழ்), the three branches of Tamil learning: literature, music and drama (இயல், இசை, காடகம்).

Naubat, the band of players that sit on the elevations over the arched gateways of palaces, mausoleums and tombs and perform.

Navagraha kirtanas, a set of kirtanas on the Planets by the composer, Muthuswami Dikshitar.

Navarasa, the nine kinds of feeling (emotion):— sringārā (love), hāsya (laughter), karuna (pathos), raudra (anger), vira (heroism), bhayānaka (fear), bibhatsa (disgust), adbhuta (surprise), and sānta (patience). Bhakti (devotion) is regarded as the tenth rasa.

Navaratna malika, literally a garland of nine gems; the name given to the nine kritis composed by Syama Sastri in praise of the presiding Deity of Madura temple:

Sri Minakshi.

- Navavarana kirtanas, a group of nine kirtanas in praise of Devi by Muthuswamy Dikshitar. There are three sets of these: Kamalāmba navāvaranam, Abhayāmba navāvaranam and Siva navāvaranam.
- Netra, the name of the second chakra in the scheme of 72 melakartas.
- Nyasa, the note on which a raga or a phrase ends; (also see under trayodasa lakshanas).
- Pada jati varna, a kind of varna (see under varna).
- Pada varna, a kind of varna (see under varna).
- Paddhati, पद्धि Procedure or metbod; ex. rāga ālāpana paddhati.
- Pan (with), the equivalent of raga in ancient Tamil music; also a song or tune.
- Panchalinga sthala kritis, a set of five kritis in Sanskrit by Muthuswamy Dikshitar in praise of the five Lingas: Pritivi (Conjeevaram), Appu (Tiruvānaikkāval), Teyu, (Tiruvannāmalai), Vāyu (Kālahasti) and Akāsa (Chidambaram).
- Pancharatna, literally five gems: refers to the famous five compositions of Tyagaraja in the ghana ragas:—
 Nāta: (Jagadhānandakāraka), Gaula: (Dudukugala),
 Arabhi: (Sādhinchene), Sriraga: (Endaro mahānubhāvulu) and Varāli: (Kanakana ruchira).
- Panniyam (டன்னியம்), a shādava raga in ancient Tamil music.
- Patam पादज्, jatis or tāla mnemonies; tala solfa syllables.
- Patantaram, repertoire.
- Penta tonic scale, same as audava raga.
- Periya melam (பெரிப மேனப்), the nāgasvaram set, consisting of the players of the nāgasvaram, ottu (drone), tavil (drum) and cymbals.

Pidippu (பிடிப்பு) विशिष्ट —The name given to the more prominent sanchāras or raga ranjaka combinations of a raga and which bring out its svarūpa or identity; catches; called pakad in Hindusthāni music.

Prati madhyama karta, a melakarta taking the prati madhyama or F sharp.

Prayoga प्रयोग—sanchāra संचार: combination.

Purva mela, same as pūrva melakarta (see below).

Purva melakarta, a melakarta belonging to the purva half or the first half of the scheme of 72 melas; i.e., a suddha madhyama karta.

Purva prasiddha melas, the 19 or 20 wellknown melas current before the time of Venkatamakhi and referred to by scholars as such.

Quadra tonic scale, same as svarāntara rāga.

Raga chhaya svara, same as amsa svara or jiva svara.

Ragamalika, a composition wherein the sections are in different ragas, the tala being constant throughout.

Ragamalika kirtana, a composition of the kirtana form wherein the sections are in different ragas e. g., Enakkun iru padam (எனக்குன் இரு மதம்) of Arunāchala Kavirāyar and Jaya Jaya Gokula Pala of Nārāyana Tirtha.

Ragamalika varna, a composition of the varna form with the sections in different ragas e.g., the Navaraga malika varna and the Dinaragamalika varna.

Ragana (राज) Matya tala, a tala which has the following constituent angas: guru, laghu and guru i.e., 8 | 8; an āvarta of this tala consists of 20 aksharakālas.

The ordinary Matya tala consists of | ○ | and an āvarta of this tala consists of 10 aksharakālas.

Raga tala malika, a composition wherein each section is composed in a separate raga and a separate tala.

Rasika, a cultured person; one who is able to genuinely enjoy and appreciate good music; a person with an accredited, refined and critical taste.

Resting note, a note on which one can rest or repose and around which, one can tdevelop an alapana. Every resting note is a nyasa svara, but every nyasa svara need not necessarily be a resting note.

Rishi, the name of the seventh chakra in the scheme of 72 melakartas.

Rudra, the name of the eleventh chakra in the scheme of 72 melakartas.

Rutu, the name of the sixth chakra in the scheme of 72 melakartas.

Salaga raga, same as chhāyālaga raga.

Salanka raga, same as chhāyālaga raga.

Sama graha, a case wherein the music and the tala begin simultaneously.

Samvadi, exact consonance; (also see under vādi).

Sanchari, see under varna.

Sangati, a technical beauty met with in the kriti and a few other types of compositions. It is the name given to the variations developed, or built on a musical theme, step by step.

Sankirna raga, a mixed raga i. e., a raga wherein traces of other ragas are seen in a pronounced manner.

Sankrama raga, same as sankirna raga.

Sanyasa, one of the trayodasa lakshanas.

Sarva laghu, literally, laghu all through; counting by sarva laghu means, measuring time in an even manner i.e., reckoning by mere aksharakālas instead of reckoning by its constituent angas.

Sata raga ratna malika, a garland of 100 kirtanas in Telugu, in 100 different ragas by Tyagaraja.

Shadava, one of the trayodasa lakshanas.

Shodasangas, the 16 angas beginning with the anudrutam (duration, one aksharakāla) and ending with the kākapādam (duration: sixteen aksharakālas).

Solfa passage, a musical passage which has no sāhitya and which is sung with the svara letters.

Solkattu (சொல்கட்டு), jatis; tala solfa syllables.

Sthayi, see under varna,.

Suddha madhyama karta, a melakarta taking the suddha madhyama.

Suddha raga, a pure raga, t.e., unalloyed by the presence of traces of other ragas.

Sutra khanda, the name given to the first section of a rāgānga rāga lakshana įgita, and wherein the svaras figuring in the rāgānga rāga are given in the form of mnemonics.

Svarakshara, a literary as well as a musical beauty met with in kritis, varnas, padas and jāvalis. A svarākshara passage is one wherein the solfa letters figure in the whole or part of a sāhitya and the particular passage is sung to the music signified by those letters. In such a passage therefore, the svaras and the corresponding sāhitya letters happen to be exactly identical.

Svara sahitya, स्वर् साहित्य—A technical beauty figuring in the kriti composition and wherein the chitta svara passage is adorned with an appropriate sāhitya.

Svayambhu svaras, over-tones or upper partials.

Symmetrical raga, a non-vakra raga which takes the same number and kind of notes in both its ārohana and avarohana. The symmetry can easily be perceived in the ārohana - avarohana graphs of these ragas.

Tala malika, a composition wherein the sections are in different talas or time-measures, the raga being constant throughout.

Tara, one of the trayodasa lakshanas.

Tattakara (κέκκπειο), the name given to a passage of tala mnemonics or jatis, illustrating a particular tala.

There are standard tattakāras for almost all the time-measures used in sacred and secular music.

Tiram (இறம்), a janya raga ; also an audava raga in ancient Tamil music.

Tirattiram (இறத்திறம்), a svarāntara raga in ancient Tamil

Tiruvottiyur Pancharatna, the five kritis composed by Tyagaraja in praise of Sri Tripurasundari Amman of Tiruvottiyur; they are:

Sundari ni divya rūpamunu — Kalyāni.

Darini telusukonti — Suddha sāveri.

Sundari nannındarilo — Begada. Sundari ninnu varnimpa — Arahhi.

Kannatalli ninnu - Sāveri.

Travodasa lakshanas, the thirteen characteristics of a raga, mentioned in the Sanskrit works on music and which established its svaruna or melodic entity:-Graha, the note on which the raga commenced : amsa, the note which revealed the melodic entity or the svarūpa of the raga: also called the jiva svara (soul of the raga): nvāsa, the note on which the raga was concluded: mandra and tara, the lowest and the highest notes respectively, beyond which the raga sanchāras should not extend; alpatva, the note that was used sparingly in the raga; bahutva, the note that was used frequently in the raga; apanyasa, vinyāsa and sanyāsa, the ending notes of intermediate phrases in the course of the raga alapana; shādava, constituted of 6 notes; audava, constituted of 5 notes: antara marga, the introduction of a note or chhāyā, not belonging to the rāga.

Tri-anya svara bhashanga raga, a bhāshānga raga with three foreign notes: ex. Hindustān Kāfi.

Ubhayakara or bhayakara, dhātu-mātu kāra i.e., one who has the ability to compose music and also set a suitable sāhitya to it; composer or vāggeyakāra.

Upanga khanda, the name given to the second section of a rāgānga rāga lakshana gita, and wherein the upānga ragas derived from that mela are enumerated.

Uttara mela, same as uttara melakarta (see below).

Uttara melakarta, a melakarta belonging to the uttara half or the second half of the 72 melakartas, i. e., a prati madhyama karta.

Vadi, samvadi, anuvadi and vivadi.

Svaras are divided into four classes:— Vādi, samvādi, anuvādi and vivādi.

- Vādi, is the principal or the predominant note of a raga. The vādi svara is compared to a king. This royal or regnant note is sounded several times in a raga.
- Samvādi svaras are those between which there are eight or twelve srutis. In other words, if two notes are related as shadja and panchama, or as shadja and suddha madhyama, they are called samvādi svaras. Samvāditva means the consonance of the fifth or the fourth. The samvādi svara is like a minister to the king vādi.
- Shadja and Panchama, Shadja and Suddha Madhyama, Suddha Rishabha and Suddha Dhaivata, Suddha Gāndhāra and Suddha Nishāda, Sadhārana Gāndhāra and Kaisiki Nishāda, Antara Gāndhāra and Kākali Nishāda, Suddha Rishabha and Prati Madhyama are samvādi svaras.
- Vivādi, if between two svaras, there is only one sruti, these two notes are said to be vivādi to one another: the vivādi note is like the enemy.
- Anuvādi, svaras which are neither vādi, samvādi nor vivādi are called anuvādi. The anuvādi svara is compared to a servant; compared to the samvādi svara, the anuvādi svara relatively speaking, is somewhat less consonant.
 - Thus 'the sonant or the speaking note is the vādi. The consonant note is the samvādi. The note which clashes with it and produces a discordant effect is the vivādi or the dissonant note. The note which increases

the beauty of the raga is the anuvadi or the assonant note.'

Thus from the point of view of the interval relationships of notes, svaras have been classified into:— vādi, samvādi, anuvādi and vivādi. The simultaneous sounding of samvādi svaras (consonant notes or intervals) results in a pleasant effect; the simultaneous sounding of vivādi svaras (dissonant notes or intervals) results in a repulsive effect; the simul taneous sounding of anuvādi svaras results in an effect which is intermediate between these two; i.e., neither wholly pleasant nor wholly repulsive. These are fundamental musical truths and hold good in all systems of music.

Vaidika ganam (वैद्यंक गानम्) sacred music.

Varik, shake or kampita; shake of the interval and not merely the tremolo of a syara sthana.

Varik style, a style of playing wherein the notes are seldom sounded pure and wherein one gets the aural impression of a series of musical curves.

Varna, the mode of singing (gānakriya) and is of four kinds: — sthāyi, ārohi, avarohi and sanchāri.

Varna, an art musical form belonging to the sphere of abhyāsa gāna. Varnas are of two kinds:— tāna varna and pada varna. In the former, the tempo is madhyamakāla and in the latter, chauka kāla. For this reason, pada varnas are also called as chauka varnas. There are some chauka varnas by great composers wherein sāhitya is found only for the pallavi, anu-

pallavi and charana, after the model of a tāna varna the remaining sections being sung as solfa passages. But a padavarna has always sāhitya for the entire piece.

Pada jati varna is a pada varna wherein we come across jatis in some portions.

Vasu, the name of the eighth chakra in the scheme of 72 melakartas.

Veda, the name of the fourth chakra in the scheme of 72 melakartas.

Venkatesa Pancharatna, a set of five kritis in Telugu, in praise of Sri Venkatesvara, by Vina Kuppayyar.

Vijaya Raghava Pancharatna, a set of five padas in Telugu composed by Kshetrajna in honour of Vijaya Raghava Naik of Tanjore, one of the royal patrons of the seventeenth century.

Viloma krama, reverse order.

Vinyasa, one of the trayodasa lakshanas.

Virama, a synonym for the anudruta.

Visesha sanchara, a musical phrase, which is not in accordance with the archana and avarchana krama of the raga but which nevertheless comes in, for the sake of enriching its beauty.

Visranti विश्वांति, a period of rest or silence in a musical composition.

Vivadi, an inimical note; also see under vādi. In Hindusthani music, the term vivādi svara is used in the sense of varja svara i.e., a note eschewed in the raga.

Vusi (ఫిసి), visarjitam.

Anuvadi, see under vādi.

Gramophone and the Radio, two of the boons of modern science, to humanity. Through the gramophone one is able to listen to a piece of recorded music, any number of times and through the Radio, one is able to listen to music performed thousands of miles away.

Gramophone recording is a complicated process. At one end of the recording apparatus is a microphone which picks up the music performed in the chamber and at the other end of the apparatus is the needle which records the music as a series of wavy lines on a revolving disc of wax. From this waxy disc, negatives are taken and from these, the gramophone records are made.

Some of the best specimens of world's classical music and folk music have been recorded on the gramowhone. Long after the demise of an illustrious performer, one can still feast his ears with the recorded music of that performer. Group kritis and long compositions like the 72 Melaraga malika of Mahā Vaidvanātha Iyer can be recorded and made available to music lovers through sets of records. Some of the priceless musical legacies can thus be preserved for posterity. One can delight himself with gramophone music on mountain tops, in places where electricity is not available and in dead spots ie., the Radio music cannot be heard. places where A certain amount of self-education in music is also possible through the gramophone. Thus in addition to entertainment, the uses of the gramophone are mainfold.

In Radio Broadcasting Stations, musicians perform in sound-proof studios. The music performed in front of

the microphone is transmitted and broadcast. Every Radio Station has its own wavelength or wavelengths for its broadcasts and by tuning the receiving set to the particular wavelength, one is able to listen to the programme from the concerned station.

Echoes. reflected sounds. When sound waves strike a smooth, fixed and plane surface, they are reflected. If the echoes are to be auduble, the person speaking or singing should be at a place sufficiently far away from the reflecting surface. Echoes can be heard in temple corridors, hill sides and in the neighbourhood of big walls. The phenomenon of clock-tower music being heard as ianta svaras from particular places in the neighbourhood, is due to the fact that at those particular spots the person first listens to the direct sound emanating from the clock tower bells and immediately afterwards, the same sounds reflected from a neighhouring wall or building; (one can experience this phenomenon by standing near the Senate House. Madras). In big concert halls, echoes are percentible and in such cases, the defect can be rectified by covering the offending walls or surfaces with some soundabsorbent material.

Harmonics.—When a stretched string fastened at both ends is made to vibrate, it first vibrates in its entire length; then in two segments: then in three segments; then in four and so on. As a result we hear certain sounds in rapid succession superposed upon the principal sound. The lowest note i.e., the note produced by the vibration of the whole length of the string is the loudest and is called the fundamental or prime tone; the others are called over-tones, upper partial tones

or harmonics. A note not accompanied by its harmonics is always thin and poor. In sanskrit, harmonics are called anurananātmaka dhvani: अनुरणनास्मकव्यनिः Somanatha in his Rāga vibodha calls harmonics as svayambhu स्वयंभ् svaras.

Mute, the metal clamp that is placed over the bridge in the violin. The mute grips the bridge. As a consequence of the bridge being gripped and loaded, not only is the intensity of the sound reduced, but a new quality is imparted to the tone, emanating from the violin.

Range of audible frequency, the maximum and minimum limits of pitch beyond which it is not possible for human ears to hear. In absolute pich, this compass extends from a note of about 16 vibrations per second to a note of about 20,000 vibrations per second i.e., over a range of eleven sthayis.

Resonance, reinforcement of sound. The phenomenon of resonance is of great importance in the construction of musical instruments and in the production of the tone of the human voice. Musical boxes or resonance boxes in stringed instruments, and the pipe or tube in wind instruments are devices to reinforce the generated sound. Without these resonators, the music emanating from the strings or the mouth-pieces will be feeble.

Sangita Mahal, concert hall; kachcheri mantapam.

In an ideal concert hall, the music is audible at all parts of the hall; even very fast music is heard with clearness; the tone colour of the several instruments is heard in all purity; there is sufficient reverberation; there are no echoes. In an acoustically good hall (**rasiciO** approximation**) there is

no need for the singer to exert and he feels it a pleasant thing to perform therein. In such halls, the requisite musical atmosphere is created soon after the commencement of a concert. The whole atmosphere becomes saturated with musical sounds. Concert halls should be sound-proof, so as to ensure freedom from extraneous noise or be situated away from the road-side to ensure calm and undisturbed listening. Concert halls are usually rectangular shaped. The Gewandhaus in Leipzig, Germany is a world-famous concert hall and it is a pride and a privilege for any musician to perform there.

Sound-post, the tiny little cylindrical piece of wood seen inside the violin, connecting the table and the back. It not only supports the right foot of the bridge, but also transmits the vibrations to the back. The top and the bottom of the sound-post should be respectively shaped to the arching of the belly and the back, so as to ensure perfect contact.

Sympathetic vibration, a phenomenon noticed in the case of columns of air, strings or other objects, under the influence of a source of sound. If a string is set in vibration, it will cause any other string to vibrate, provided this other string is in close proximity and is tuned to the identical pitch of the generating string or to any one of its upper partials. It is wellknown that when one of the sărani strings of a tambura is plucked the other sărani string automatically vibrates. The phenomenon of sympathetic vibration has been taken advantage of in instruments like the gotuvādyam and the sārangi and the subsidiary notes emanating from the sympathetic strings add a richness to the music.

CHAPTER X

Description of Ragas.

Note.—In this chapter, lakshanas of 15 select ragas are given. The ragas are presented in the order of the melakartas. It is possible to describe each raga in terms of its precise srutis; but in conformity with the usual practice, the svarasthanas alone are mentioned for each raga. To enable the reader to form a fuller idea, a few prominent compositions are cited as examples under each raga. The sancharas given here are to be sung in slow time.

1. Todi तोडि

The eighth mela raga; second mela in the Netra (2nd) chakra (Netra-Sri); came to be called Hanumatodi for the sake of the $katapay\bar{a}di$ formula. A mela claiming a large number of janya ragas.

Arohana: srgmpdns

Avarohana: sndpmgrs

Note.—The panchama varja shādava raga (srgmdnssndmgrs) under this mela is known as Suddha todi.
The wellknown Rāmāyana gita, Arere Dasaratha rāja in Dhruva tala is composed in Suddha todi.

Besides Shadja and Panchama, this raga takes the Suddha Rishabha, Sādhārana Gāndhāra, Suddha Madhyama, Suddha Dhaivata and Kaisiki Nishāda.

Sampurna raga; a raga with a symmetrical pair of tetrachords, the tetrachords being separated by the interval of

a major tone; ga, ma and dha are the raga chhāyā svaras; ma, pa and ni are nyāsa svaras. Janta svara combinations like ggmmdd, mmddnn, ddnnssand dātu svara prayogas like ngrndnrndm, gmndmGrSare prominent. Panchama varja prayogas add beauty to the raga;

dns D and rs D are visesha prayogas. Sarva svara gamaka varika rakti raga. One of the major ragas; well distributed. Slokas, padyas and viruttams can be sung in this raga. All great composers and minor composers of note have composed in this raga. All types of compositions are represented in this raga. A raga affording scope for elaborate ālāpana. The tune called Mattakokilam is in this raga. Used in operas. Compositions in this raga begin on the notes: sa, ga, ma, pa, dha and ni. Can be sung at all times. Todi Sitaramayya, a brilliant musician, is said to hāve sung this raga for eight days.

Venkatamakhi's statement that Todi is an auttara raga (i.e., came from the north) cannot be justified. Todi is one of the scales obtained by the process of modal shift of tonic to the primordial scale of Indian music and the suddha mela of ancient Tamil music. The Sangito Katnākara mentions this raga.

Sanchara:-

dnSSsnD-dnsrrS, sndpm-pdndNsr SsnD-dnsrG, rsn-dnsrgmGrrS-snd P-GmP-dndP-pmGrrS-snD,dnsrS

Some prominent compositions.

Type of composition.	Beginning words.	Tāla.	Name of the Composer.	
Svarajat	i Rāve Himagiri	Adi	Syāma Sāstri.	
Varna	Kanakāngi	Ata	Pallavi Gopalayyar.	
"	$Erar{a}nar{a}pai$	Adi	Patnam Subrahmanya Iyer.	
Kriti	Koluvamaregada	Adi	Tyagaraja.	
•••	$Kaddanav\bar{a}riki$	**	,,	
>1	Chesinadella	**	**	
,,	$Dar{a}sarathe$,,	,,	
"	$Endudar{a}ginar{a}do$	Chāpu	23.	
,,	Tappi bratiki	Rupaka	,,	
, ,,	Ninnu vina sukho	ımu "	**	
••	Enduku daya	Triputa	,,	
**	Emi jesite nemi	,,	**	
,,	$Kamal\bar{a}mbike$	Rupaka	Muttuswami Dikshitar.	
,,	Ninne namminān	u Chapu	Syāma Sastri.	
**	Amba nādu	Adi	Pallavi Gopala y yar.	
,,	Amba nannu	,,	Anayya	
,,	Emani pogađudu		Garbhapuri.	
,,	SriVenkateswara	m Rupaka	Ramnad Srinivasa	
,,	Gajānana anuchi	,,	Iyengar.	

2. Mayamalavaqaula मायामाळवगोळ.

15th melakarta raga; 3rd raga in the III (Agni) chakra; (Agni-go). Mālavagaula was the original name of the raga. $M\bar{a}y\bar{a}$ was prefixed to the raga name, after the advent of the scheme of 72 melas; this was done inorder to obtain by the application of the katapayādi formula, the number 15.

Arohana :--

srgmpdns

Avarohana :--

sndpmgrs

Besides Shadja and Panchama the notes taken are:— Suddha Rishabha, Antara Gāndhāra, Suddha Madhyama, Suddha Dhaivata and Kākali Nishāda.

Sampūrna raga; sarva svara gamaka varika rakti raga. A janaka raga claiming a large number of janya ragas. A mela raga with a pair of symmetrical tetrachords — the tetrachords being separated by the interval of a major tone; ga and ni are jiva svaras; ga and pa are resting notes. Fairly distributed; can be sung at all times. A raga free from all doshas. Compositions in this raga begin on the notes, sa, go, dha and ni. The raga is of a soft and soothing nature. One of the old ragas and is mentioned in the Sangita Ratnūkara. This raga corresponds to the Bhairava raga of Hindusthani music.

This is the raga in which all students of Karnatic music are taught their preliminary svara exercises. Svarasthānas with dual names are absent here. The only other mela wherein svarasthānas with dual names do not come in is $K\bar{a}mavardhani$. There is only a semi-tonal difference between the two notes of each of the four pairs: sr, gm, pd, ns and the two notes of each pair are played on contiguous svarasthānas on the vina. Further this raga admits of janta svara and dātu svara prayogas in quick time and slow time; achala svaras and kampita svaras also figure herein.

Sanchāra:

srgmpdnS—gmpdnsrS—sndpdnS sndnsrgrG—mgrS—sndPmG—gmpdn srsndPmgrS—sndnsrS #

Some prominent compositions.

Lakshhana } Ravikotiteja Matya gita Kriti: Merusamāna Madhvādi Tvāgarāja. Tulasi dalamulache Rupaka Vidulaku mrokkeda Adi Srinathādi Adi Muttuswamy Dikshitar. Māyātita svarupini Rupaka Ponnayya. Devādi Deva Mysore Sadāsiva ,, Rao.

3. Chakravakam चक्रवाकम्

16th melakarta raga; 4th raga in the III (Agni) chakra; (Agni-bhu)

Arohana: srgmpdns

Avarohana: sndpmgrs

Besides Shadja and Panchama, the notes taken are: Suddha Rishabha, Antara Gāndhāra, Suddha Madhyama, Chatussruti Dhaivata and Kaisiki Nishāda.

Sampūrna raga; sarva svara gamaka varika rakti raga; ri and ni are the jiva svaras; g m R s is a visesha sanchāra; ri and pa are nyāsa svaras. Fairly distributed. Compositions in this raga commence on the notes sa, ga and pa. Can be sung at all times. Tyagaraja brought this raga to prominence. Vegavāhini, a janya raga derived from this mela, figures as the 16th mela in the obsolete nomenclature for the 72 melas, under the name, Toyavegavāhini.

The illustrious singer of the last century, Mahā Vaidyanātha Iyer got his title, $Mah\bar{a}$ by singing this raga in his 12th year, before an assembly of sangita vidvāns.

Sanchāra:

gmpdnsr S—sndn P—dnsr Gr—gm R s— Snsrsnd P m—gmpdnsr snd P m—gmpdnd

srgmPm-gmRs-sndnsrGr-gmPm-

Pm-gmRs-snsrSsndnP-dnsrS||

Some prominent compositions:

Varna	Jalajākshi	Adi	Patnam Subrahmanya Iyer.
Kriti:	Sugunamule	Rūpaka	Tyagaraja.
,,	Etulabrotuvo	Triputa	,,
,,	$Ink\bar{a}daya$	Adi	Patnam Subrahmanya Iyer
••	Etula vrāsi	Triputa	Patnam Subrahmanya Iyer.
•	Nā manavini	Rūpaka	Karur Devudu Iyer.
,,	Yadukula tilaka	Adi	33
,,	Nive pālinchara	Rūpaka	Karigiri Rao.
Tirup	pugazh: Apakāra	Jhampa (Chaturasra.)	Arunagirināthar.

4. Bhairavi भैरवी

Janya raga; derived from the 20th melakarta Natabhairavi.

Arohana: srgmp*dns

Avarohana: sndpmgrs

N.B.— The Dhaivata in the ārohana is Chatussruti Dhaivata. A janya rāga with a krama sampurna ārohana and avarohana; and a raga wherein the accidental note is incorporated in the scale itself.

Besides Shadja and Panchama, the notes taken are: Chatussruti Rishabha, Sādhārana Gāndhāra, Suddha Madhyama, Suddha Dhaivata, Chatussruti Dhaivata and Kaisiki Nishāda.

Ekānya-svara bhāshānga raga; the only accidental note Chatussruti Dhaivata, occurs in the combinations pdn S, pdn sR, pdn dr. S and sndn S. Occasionally the phrase pdn s N rendered in madhyamakāla, takes the suddha dhaivata. In the combination pdn dp, both the dha notes are suddha. Usually in bhāshānga ragas, anya svaras are not nyāsa svaras; but Bhairavi is an exception. Even here it occurs only as a hrasva nyāsa—PdNd, dnsrsNd, rNd.

Most of the compositions begin on the nishāda svara and a few on the rishabha or dhaivata; ri, ga, ma and ni are the rāga chhāyā svaras; ri, ma, pa, mi and chatussruti dha are nyāsa svaras; ga, ma and ni are kampita svarasr; r m G r s is a visesha prayoga.

Janta svara prayogas like rrggmmgg and dātu svara prayogas like ngrgsr, nrsrnS, prSndP, mndP, mpGrs are prominent. Sarva svara gamaka varika rakti raga;—the best of the rakti ragas. An evening raga according to some scholars; but can be sung at all times. One of the major ragas; well distributed. Slokas, padyams and viruttams can be sung in this raga. All great composers and minor composers of note have composed in this raga. All types of musical compositions are represented in this raga. A major raga admitting of elaborate scope for ālāpana. Used in operas. This raga corresponds to the Tamil pan Kausikam.

History: Centuries back this raga was an upānga raga. The use of the Chatussruti Dhaivata in the ārohana-krama combinations was gradually acquiesced in by scholars and by the time of Venkatamakhi, it became a regular bhāshānga raga. This is one of the old ragas and is the 7th of the nineteen prasiddha (prominent) melas mentioned by old scholars. This raga is mentioned in the Sangita Ratnākara, Sangita Makaranda and Sangita Samayasāra.

Sanchāra:-

rgmp *dnSsn *D— *dnsrsrsN *d—ns
rsR—rgmGrSN *d—nsngrgsr—nsnrsr
nS—pdpdpM—pRSrndP—pmNdP—mnd
PmpGrs—rgmpdpGrS—rgmGrsN*D—ns
rsR—P *dnsrSi

Some prominent compositions.

Gita:	Sri Rāma	Dhruva	
Svarajati:	Kāmākshi	Chāpu	Syāmā Sāstri.
Varna:	Viriboni	Ata	Pachchimiriyam Adiyappiah.
Kriti;	Koluvaiyunnāde	Adi	Tyāgarāja.
**	$Chetul\bar{a}ra$,,	**
• ,•	Sri Raghiivara	,,	**
,,	Upachāramulanu	,, .	,,
,,	Raksha bettare	,,	,,
,,	Tanayuni brova	,,	,,
**	Upachāramu	Rūpaka	,,
	Tanayande (Nauka Charitram.)	Chāpu	"
••	Chintaya mā	Rupaka	Muttuswamy Dikshitar.
• ,,	$B\bar{a}lagop\bar{a}la$	Adi	/,
***	Mahā Tripura	Rūpaka	Pallavi Gopalayyar.
**	Ni pādamule	Adi	Patnam Subrah- manya Iyer.
,,	Ika nannu brova	,,	Pallavi Seshayyar.
,,	$Sri\ P ar{a}rthas ar{a}radhe$		
	Arukku	Chāpu	Gopālakrisbna Bhārati.
?nd	Tudi seydidu	Rūpaka	Ramaswamy Sivan.
	: Srita kamalā	Triputa .	Jayadeva.
Tarangam	: Jaya jaya gokulapāla		Nārāyana Tirtha.
••	Govinda ghataya	Jhampa	
Padam:	Mundati	Triputa	Kshetrajna.
, , ,	$Vc^{\prime}avare$	Adi	Ghanam Krishnayyar.

5. Kharaharapriya खरहरत्रिय

22nd Melakarta raga; 4th raga in the IV (Veda) chakra. (Veda-bhu).

Arohana:- srgmpdns

Avarohana:- s n d p m g r s

Besides Shadja and Panchama, the notes taken are:— Chatussruti Rishabha, Sādhārana Gāndhāra, Suddha Madhyama, Chatussruti Dhaivata and Kaisiki Nishāda.

A mela raga with a pair of symmetrical tetrachords—the tetrachords being separated by the interval of a major tone. Sampūrna raga; sarva svara gamaka varika rakti raga; ri, ga, dha and ni are the raga chhāyā svaras; the pratyāhata प्रयाहत gamaka lends colour and svarūpa to this raga; fairly distributed; can be sung at all times. A mela raga with a large number of janya ragas. Compositions in this raga commence on the notes sa, ri, pa, and ni. We owe this raga to Tyagaraja. He is the only composer to have composed many beautiful kritis in it and thereby brought it to prominence. This raga corresponds to the Kāphi raga of Hindusthani music. With the emergence of Kharaharapriya, the svarupa of Bhairavi became clearly defined.

 $Srir\bar{a}g\sigma$, a janya of this mela figures as the 22nd mela in the obsolete nomenclature for the 72 melas.

Note:— There is an appropriateness in the raga name, Harapriya (i.e., pleasing to, or liked by Hara or Siva)— Khara being the Katapayādi prefix. This raga approximates to the ancient $s\bar{a}ma$ $g\bar{a}na$ scale, the primordial scale of Indian music and the scale in which Siva delights in.

Sanchāra:-

rgmPmGr—NdpdndPmGr—rgmpdnS sndPmGr—rgmpdnSsnD—pdnsRR dnsrGGgr—gmGgrR—RSsnD—pdnsrgr sNd—pdpdnsNndP—mpdndpmGR—Nndd ppmmggrR—Snd—nsrsR—ndpdndPmGr S—ndnsrS#

Some prominent compositions.

Chakkani rāja	Adi	Tyagaraja.
Nadachi nadachi	,,	
Kori sevimpa	***	
Vidamu seyave	17	19
Pakkala nilabadi	Triputa	
Rāma ni samāna	Rūpaka	
Sankal pame	Adi	Patnam Subrahmanya Iyer.
$Tyar{a}garar{a}ja$,,	Tiruvottiyur Tyāgayyar.
	Nadachi nadachi Kori sevimpa Vidamu seyave Pakkala nilahadi Rāma ni samāna Sankalpame	Nadachi nadachi Kori sevimpa Vidamu seyave Pakkala nilabadi Rāma ni samāna Sankalpame Adi

The raga of the kriti: $R\bar{a}m\bar{a}n\bar{i}yeda$ is only $Dil\bar{i}pakam$ and not Kharaharapriya.

6. Mohana मोहन

Janya raga; derived from the 28th melakarta Hari-kāmbhoji.

Arohana: srgpds

Avarohana: s d p g r s

Besides Shadja and Panchama, the notes taken are: the Chatussruti Rishabha, Antara Gāndhāra and Chatussruti Dhaiyata

Audava raga; varja raga; the notes ma and ni are varja. Symmetrical raga. Upānga raga; ri, ga and dha are the raga chhāyā svaras; ga and pa are resting notes. Janta

svara prayogas like, **g g p p d d s s** and dātu svara prayogas like **d g r s d p**, **d r s d p**, **g d p g r** and **r p g r s** are prominent. Sarva svara gamaka varika rakti raga; one of the major ragas and gives scope for elaborate ālāpana; can be sung at all times, but still night time is best suited. One of the widely distributed, popular ragas. Slokas, padyas and viruttams can be sung in this raga. All types of compositions are represented in this raga. Used in operas. Useful for *varnana* or description. An auspicious raga. Compo-

The oldest raga known to man. This penta-tonic scale is found in the music of the different nations of the world, including the music of the primitive tribes. This is accounted for by the fact that the notes figuring in this raga are the earliest notes met within the sa-pa series (cycle of fifths). There are many folk songs in this raga.

sitions in this raga commence on the notes sa, ga and dha.

Corresponds to the Bhup of Hindusthani music.

Sanchāra:

gpdSs—pdsrGgr—srgpGgr—srgR s—dsrsDdp—pgpdsrsDp—gpgDpgr—sr gpGgr—srgRe—dsrs—ddsDp—pgpdsdS

Some prominent compositions.

Gita :	Vara vina	Rupaka	
Svaraja	i : Sāmidayamera	Adi	_
Varna:	Ninne kori	•	
	Sarasijākski	Ata	Vina Kuppayyar.
Kriti:	Bavanuta .	Adi	Tyagaraja.
,,	Nanupālimpa	,,	
	Mohanarāma	,,	,,
11	Endukobāga	••	
31	Rāma ninnu	,,	,
,,	Evarura	Chāpu	,,
,,	Maruvaku daya	Adi	Karur Dakshinamürti Sastri.
.,	Pedda derudani	,,	Mysore Sadāsiva Rao.
,,	Nenarunchara	,,	Karigiri Rao.
•	En polli .	., .	Arunāchala Kavirāyar.
,,	Arumarundoru	Rūpaka	Muttu Tändavar.
,,	Sannidhi	Chāpu	Kavikunjara Bhārati.
Tarange	am: Kshemamkur	u .,	Nărāyana Tirtha.
Jāvali:	Mohamella	Rūpaka	Pattābhirāmayya.

7. Kambhoji कांभोजी

Janya raga; derived from the 28th melakarta, Harikāmbhoji.

> Arohana:— srgmpds Avarohana:— sndpmgrs

Besides Shadja and Panchama the notes taken are: Chatussruti Rishabha, Antara Gāndhāra, Suddha Madhyama, Chatussruti Dhaivata, Kaisiki Nishāda and Kākali Nishāda also in certain combinations (sce next page).

Shādava-sampūrna raga. Varja raga; ni is varja in the ārohana. Ekānya-svara bhāshānga raga, the foreign note being the kākali nishāda; this note occurs in the phrases: s n p d s and s n p d s. Dātu svara prayogas like r p m g s, r m g s and d g r s are common. Phrases like

(a) mgs (b) pdM (c) mgpds and (d) srgs are ranjaka prayogas. The notes ma, dha and ni (both the varieties) are raga chhāyā svaras; gā, ma, pa and dha are nyāsa svaras; ga, pa and dha are the notes on which one can rest and develop an ālāpana. Sarva svara gamaka varika rakti raga. Of the rakti ragas, this is widely known and sung. Well distributed. Can be sung at all times. One of the major ragas and affords scope for elaborate ālāpana. Slokas, padyas and viruttams can be sung in this raga. All great composers and minor composers of note have composed in this raga. All types of musical compositions are represented in this raga. Useful for singing sāhityas relating to varnana or description. An auspicious raga. Useful for being sung at the commencement of concerts. Used in operas. Compositions begin on the notes: £a, ga, ma, pa and dha.

This rage is mentioned in the Saugita Ratnākara, Sangita Makaranda and Sangita sanava sāra. The names, Kāmbodi and Kāmboji av the Gund has ne works.

Sanchāra:

Sanchāra:

SrgmpdSidrsndP-dmG-pdS*nP
ddsdS-mgpdS-adsrG-GG-mg/mgrS

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en D-pdsrgmgrSsndP-dsdrsNdP-dmG
-pdSs*n*nPddsdS-mgpdS-sndPmgR
s-srgmPmgRSsndP-drsndPdmG-pd
Ss*nPddS

Some prominent compositions.

Gita:	Bhuvanatraya	Dhruve	a Paidāla Gurumurti Sastri.
Varna:	Taruni ninnu bāsi	Adi	Fiddle Ponnuswamy.
**	Inta chalamu	Ata	Pallavi Gopālayyar.
• ••	Sarasija nābha	Ata	Vādivelu.
,,	Pankajākshi pai	Adi	Ramaswamy Sivan.
•	Kamalākshi	Jhampa	Kundrakkudy Krishnier
Kriti:	Marimari ninne	Adi	Tyagaraja.
••	O Rangasāri		
.,,	Evari māta	,,	
,,	Mā jānaki	,,	
,,	Sri Raghuvarāpram	eya "	
"	Sri Subrahmanyāya		Muttuswamy Dikshiter.
,,	Kāsi Visvesvara	Ata	
,,	Devi ni pada	Adi	Syāma Sāstri.
.,	Koniyâdina		Vina Kuppayyar.
•	Marimari ninne	Rūpaka	Karur Dakshinā- mūrti Sastri.
•	Nive nannu	Adi	Kundrakkudy Krishnier.
•	Nadamādi .	{ Khanda Chāpu	Pāpanāsa Mudaliyar.

" Kānāmal vinile Khanda chāpu Muttu Tāndavar. " Tiruvadi saranam Adi Gopālakrishna Bhārati. Ashtapadi; Nibruta Triputa Jayadeva.

6 n Ashtapadi ; Nibruta Triputa Jayadeva. Tarangam : Alokaye Adi Nārāyana Tirtha. Padam : Yālane vānipai Triputa Kshetrajna. Jāvali : Emi māyamu Rūpaka Pattābhirāmayya.

8. Khamas खमास्

Janya raga; derived from the 28th melakarta Hari-kāmbhoji.

Arohana:- smgmpdns

Avarohana: sndpmgrs

Besides Shadja and panchama, this raga takes the Chatussruti Rishabha, Antara Gāndhāra. Suddha Madhyama, Chatussruti Dhaivata, Kaisiki Nishāda and Kākali Nishāda.

Vakra shādava-sampurna raga; ārohana alone vakra; eka-svara-vakra ārohana. Varja rāga; rī is eschewed in the ārohana. Ekānya-svara bhāshānga raga, the only foreign note being the kākali nishāda which occurs in the combination s n S. Dātu svara prayogas like s m g m r g s r, p s *n s c n p d, and m n d n P lend colour to this raga. s g m, m g s and p d m are visesha sancharās. p d s n d is a

m g s and p d m are visesha sancharas. p d s n d is a very rare prayoga figuring in some compositions. The notes mo, dha and ni are raga chhāyā svaras; ma is a good nyāsa svara. Fairly distributed. Can be sung at all times. Slokas, padyas and viruttams can be sung in this raga. One of the most pleasing desya ragas.

Useful for portraying sringara and bhakti rasas. Compositions begin on the notes: sa, ma and pa. The raga of the well-known tune, $pancha\ chāmaram$ is Khamās. In the compositions in this raga, there is no sanchāra below the mandra sthāyi nishāda.

Originally this was an upanga raga. The two kritis of Tyagaraja in this raga do not use the kākali ni. This note appeared as an inter-loper with the composers of jāvalis and its use came to be gradually acquiesced in by scholars. Now it is a full-fledged bhāshānga raga. An ālāpana of Khamās can very well be made without resorting to the kākali nishāda prayoga. The names Kamās and Kamāchi are found in some early works.

Sanchāra:

mgmnD-dnSsnndnpdnSs*nS-dn
sRrSsnD-dnSs*n-smgmrgsrs*nS-dn
S-snnddppm-gmpS-pssnnddp-pmpd
dpmgM-mgrgS

Some prominent compositions.

Svaraje	ati: $\left\{egin{array}{l} Sar{a}mba-\ sivar{a}yanave \end{array} ight.$	} Adi	Chinnikrishna dāsa.
Kriti:	Sujana jivana		Tyagaraja.
••	Sitāpate	Adi	•
,,	Sārasasama	,,	Svāti Tirunāl.
,,	Igaparam tarum	•1	Nilakanta Dāsar,
,,	Paramādbhutamaina	,,	Mysore Sadāsiva Rao
	Nā tarama ningu		

Eduruga	Ađi	Pallavi Seshayyar.
Brochevarevarura	,,	Vāsudevāchār.
Pārka pārka	Rūpaks	Gopāla Krishna Bhārati.
Teruvil vārāno	,,	Muttu Tandavar.
Shadānana	Adi	Panchāpakesa Sastrivar.
·a)		
} Paramātmuni	Rūpaka	Vina Kuppayyar
	. "	Patnam Subrahmanya Iyer.
Marulukonnadira	Adi	Ramnad Srinivasa Iyengar.
Kommaro vāni	,,	— · · ·
Chānaro	Rūpaka	
Mātāda bāradeno	Chāpu	Naraharāchār.
	Brochevärevarura Pärka pärka Teruvil väräno Shadänana a Paramätmuni Apudu manasu Marulukonnadira	Brochevārevarura " Pārka pārka Rūpaks Teruvil vārāno " Shadānana Adi a Paramātmuni Rūpaka Apudu manasu " Marulukonnadira Adi Kommaro vāni " Chānaro Rūpaka

9. Sankarabharana शंकराभरण

29th melakarta raga; to suit the katapayādi formula 'Dhira' was prefixed to the name of this mela; 5th raga in the V ($B\bar{a}na$) chakra ($B\bar{a}na$ -ma).

One of the melakartas with a large number of janya ragas.

Arohana:— srgmpdns
Ayarohana:— sndpmgrs

Besides Shadja and Panchama, the notes taken are:— Chatussrufi Rishabha, Antara Gāndhāra, Suddha Madhyama, Chatussrufi Dhaivata and Kākali Nishāda.

A raga with a pair of perfectly symmetrical tetrachords the tetrachords being separated by the interval of a major tone. Sampūrna raga. Some scholars give a shādava avarohana to this raga by deleting the nishāda. Nishāda uarja prayogas like s D p are no doubt common in this raga, but that alone is not sufficient reason for fixing the avarohana as s D p m g r s. The phrase s n d p occurs in this raga extensively, and hence the avarohana is to be deemed sampūrna only.

Sarva svara gamaka varika rakti raga. All the svaras in both the ārohana and the avarohana are rāga chhāyā svaras; ri and dha occur as dirgha and kampita svaras. One of the major ragas and affords scope for elaborate ālāpana. Janta svara prayogas like s s r r g g m m p p and dātu svara prayogas like r n s d n p d m p g m r g S are prominent in this raga. s n p is a visesha sanchāra and occurs rarely. The phrase D, M, R tactfully introduced in the last ettugada svara of the Sankarābharana varna, Chalamela, suggests western influence. Well distributed. The opinion of the pūrvachāryas (old scholars) is that this is an evening raga; but it can be sung at all times. Slokas, padyas and viruttams can be sung in this raga. Same as the pan, pazham panjuram (பண் பழம் பஞ்சும்) of Tamil music.

All great composers and minor composers of note have composed in this raga. All types of compositions are represented in this raga. Figures in operas. The phrase **s n d p** in the lower octave is generally avoided, lest it should suggest the raga Navaroj. Compositions in this raga begin on the notes: sa, ga, ma and pa

Sankarābharana Narasayya, one of the musical gems that adorned the Tanjore Samasthānam in the 18th century was an adept in this raga.

This raga corresponds to the Bilāval of Hindusthāni music. Excepting for the slight sharpening of the sixth (dhaivata), this raga is the same as the major diatonic scale of European music. One of the old ragas. This is the nishāda murchhanā (Ranjani) of the ancient scale, shadja grāma. This raga is mentioned in the Sangita Ratnākara, Sangita Makaranda and Sangita samaya sāra.

Sanchara:-

SPpmgmrgmpDnS-snsdnpDnSSsnsrrsN-srgmG;G;mgRSn-srgmP
mgRSn-sgRrSn-snsdnpDnS-gmp
DnsrSndP-sDPmgRgmP-srgmPpdnsrgmP-mgRsnsDnS

Some prominent compositions.

Gita:	Are Dasaratha	Simhananda	ana —
Varna:	Sāmi ninne	Adi	Vina Kuppayyar.
".	Chalamela	Ata	Svāti Tirunal
Kriti:	Enduku peddala	Adi	Tyagaraja.
,,	Mariyāda gādura	,,	,,
,,	Eduta nilachite	,,	**
,,	I varaku jūchinadi	,,	1)
,,	Svara rāga sudhā	,,	,,
,,	Emi neramu	,,,	,,
,,	Sundaresvaruni	••	23
,,	Bhakti bikshq	Rūpaka	· · · • • • • • • • • • • • • • • • • •

Kriti:	Manasu svādina	Chāpu	Tyagaraja.
	Buddhi rādu	,,	,,
,,	Enduki chalamu	,,	,,
••	Akshaya linga	"	Muttuswamy Dikshitar.
	Sarojadala netri	Adi	Syāma Sastri.
,,	Devi mina netri	,,	,,
,,	Bāgumiraganu	Rūpaka	Vina Kuppayyar.
,,	Mahima teliya		Anayya.
•	Sri Hari pāda	Ata	Tāllapākkam Chinnayya.
,,	Nrityati nrityati	Ađi	Svāti Tirunal.
Pada:	Dāri juchu	Chãpu	Muvvalur Sabhāpati Iyer.
,,	Challa nāyenu	Triputa	Kshetrajna.
19	Evvade bhāma N	lisra laghu	1 ,,
	Nalla nalla nilavu	Adi	Ghanam Krishnier.
	htapadi Pasyati disi d	lisi Triput	ta Jayadeva.
Tarang	am: Sri Vāsudeva	Chāpu	Nārāyana Tirtha.

10. Arabhi आरभी

Janya raga; derived from the 29th melakarta, Dhīra Sankarābharana.

Arohana:- srmpds

Avarohana: sndpmgrs

Bosides-Shadja and Panchama, this raga-takes the Chatussruti Rishabha, Antara Gāndhāra, Suddha Madhyama, Chatussruti Dhaivata and Kākali Nishāda.

Audava-sampūrna raga; varja raga; ga and ni are eschewed in the ärohana; upānga raga; ghana raga; gamaka

varika raga; the notes, ri, ma and dha are the jiva svaras; ri and pa are nyasa svaras; ri and dha are kampita. Janta svara combinations like **p p d d s s r r** and nishāda varja combinations like **s s d d p p m p m g r r** are very characteristic in this raga. M, g r s R is a ranjaka prayoga. One of the celebrated ghana panchaka ragas and is the third in the group. A raga which shines more by its madhyamakāla sanchāras. The notes ni and ga are used sparingly in this raga; they will not occur as dirgha svaras; they are

weak notes and are not stressed. In the phrases, $\mathbf{s} \mathbf{n} \mathbf{D}$ and \mathbf{M} , $\mathbf{g} \mathbf{r} \mathbf{s} \mathbf{R}$, the ni and ga are just touched these two notes are not nyāsas. There are some compositions wherein the ni is totally eschewed. Can be sung at all times. The pan pazh m takka ragam (ugi sis gas) corresponds to Arabhi. Fairly distributed. Compositions begin on the notes ri, pa and dha. Auspicious raga. Benedictory verses are sung in this raga.

Sanchāra:

rmpDd-mpdSs-snD-ddssrsRR-MgR-srsnD-ddRr-ddSs-ppDd-mpdsddppmpmgrr-srsnD-ddrrsdS||

Some prominent compositions.

Gita: Rere Sri Rāma Triputa

Varna: Sarasijamukhi Adi Pallavi Luraisamy Iyer.

Pancharatna: Sādhinchene ,, Tyāgarāja.

Kriti:	Ambaninnu	Adi	Tyāgarajā.
,,	Sundari ninu	Chāpu	37
,,	Nāmoralanu	Adi	***
,,	Chālākalla	"	91
,•	$Ch\bar{\mathrm{u}}t\bar{a}mu$	Rūpaka	33
,,	Nādasudhārasam	• • • • • • • • • • • • • • • • • • • •	••
,,	Sri Sarasvati	,,	Muttuswamy Dikshitar.
,,	Pāhi Parvata	Adi	Svāti Tirunāl.

11. Kedarm केदारम्

Janya raga; derived from the 29th melakarta, Dhira Sankarābharana.

Arohana: s m g m p n s

Avarohana: snpmgrs

Besides Shadja and Panchama, the notes taken are: the Chatussruti Rishabha, Antara Gāndhāra, Suddha Madhyama, and Kākali Nishāda.

Vakra audava-shādava raga; ārohana alone is vakra; eka-svara vakra ārohana. Varja raga; ri and dha are varja in the ārohana. Upanga raga: Ghana raga and belongs to the $dvitiya\ ghana\ panchaka\ group$. Gamaka varika raga;

ma and ni are the rage chhāyā svaras. sgmp, pSsnp, srrGs, and Pnmg are visesha sanchāras and give beauty to the raga. The use of the dhaivata in this raga is not in confermity with the strict lakshana; ma can occur neither as a long note nor as a nyāsa svara. Can be sung at all times; but morning is decidedly better. Useful for singing

invocatory songs and verses, and nandi, slokas, padyas, and viruttams at the commencement of an entertainment, drama, opera or religious discourse. Compositions in this raga begin on the notes; $sa\ ga$, pa and ni.

A raga with a limited scope for ālapana. This raga shines more by madhyamakāla prayogas. Can be sung with good effect in the rāgamālika section of a pallavi.

This raga is eminently suited for being sung at the commencement of concerts. On account of the presence of tivra svaras the requisite musical atmosphere is soon created.

Sanchāra:

PnnSn-smgmP,m-gmpnSsn-S,mG,rR,s-srrG,S-snP,m-gmpnS,nP,m-pSsnP,m-mggrrS-srrGS,-snP-pnsmgm-psnP,m-mggrrS-srrGS ~~

Some prominent compositions. Kundrakkudv Pada jati Ento vaibhavamu Adi Krishnier. varna: Tvagaraja. Kriti: Rāmā nipai Marache vādana Misra eka Muttuswamy Ananda natana Dikshitar. Rupaka Anayya. Bhajana sayave Samayamide Patnam Subrahmanya Iyer.

Nīve nā jīvamani " Pallavi Seshayyar.

Kri	Durusuga kripa	Rūpaka	Karur Dakshināmūrti Sāstri.
,,	Paluke bangāra	-Chāpu	Bhadrāchala Rāmadās.
,,,	Anjādiru nenjame	,,,	Gopālakrishna Bhārati.
,,	Ellorum vārungal	Adi	***

12. Suddha Saveri ग्रुह्सावेरी

Janya raga; derived from the 29th melakarta Dhira Sankarābharana

Arohana: srmpds

Avarohana:- sdpmrs

Besides Shadja and Panchama, the notes taken by this raga are: the Chatussruti Rishabha, Suddha Madhyama, and Chatussruti Dhaiyata.

Audava raga; varja raga; the notes ga and ni are varja. Symmetrical raga. The symmetrical positions of the notes in the purvanga and uttaranga may be noted. Upanga raga. Janta svara combinations like, rrmmppdd,

m m p p d d s s, d d s s r r m m and datu svara prayogas

like $\mathbf{drsdp,mdpmRs}$ add beauty to the raga; ri and dha are jiva svaras and nyāsa svaras. Sarva svara gamaka varika rakti raga. Fairly distributed. The second jāma (9-12) is appropriate for singing this raga. Pieces in this raga commence on the notes: sari, and dha. One of the minor ragas and does not lend itself for an elaborate ālāpana. The $Durg\bar{a}$ of Hindusthāni music is this raga.

This raga is found in Chinese music. The Devakriya of the Dikshitar sampradāyam is the same as the Suddha saveri raga. Being the panchama murchhana of Mohana, this pentatonic scale occurs in the music of South-east Asia, Java and other neighbouring islands.

Sanchāra:

srmpDdp—MpdSs—ddssrr—
srmRs—DpdrsDp—M,pdsDp—mdpmR,s
—rmpD—rrsDp—mpdsddpp—mdpmrmrs
—rmpmRrsDp—ddrrsdS

Some prominent compositions.

Gita:	An a lekara	Triputa	-
Kriti:	$Kar{a}laharana$	Rūpaka	Tyagaraja.
,,	Darini telusu	Adi	19
,,	Lakshanamulu	,,	,,
,,	Sri Guruguha	Rūpaka	Muttuswamy
			Diks hit ar.
,,	Sri Vatukanātha	Misra eka	ı ,,
,,	$Sri\ Raghukul\bar{a}bdi$	Triputa	Pallavi Seshayyar.
,,	Sāmaja varada	Rūpaka	Ramnad Srinivasa
			Iyengar.
**	Ennattukkudavi	\mathbf{Adi}	Anayya.

13. Bilahari बिलहरी

Janya raga; derived from the 29th melakarta, Dhira Sankarābharana. *Bilāhuri* and *Balahari* are the older names of this raga.

Arohana: -

srgpds

Avarohana:-

śndpmgrs

Besides Shadja and Panchama this raga takes the Chatussruti Rishabha, Antara Gāndhāra, Suddha Madhyama, Chatussruti Dhaivata, and Kākali Nishāda; and the Kaisiki Nishāda also.

Audava-sampūrna raga; varja raga; ma and ni are varja in the ārohana. Ekānya-svara bhāshānga raga; the foreign note met with in this raga is the kaisiki nishāda, which comes in the phrases pdndP,pdnp and pndp; ri, dha and ni are the rāga chhāyā svaras; pa and ri are nyāsas; ma and ni are not kampita svaras. Janta svara combinations like ssrrggpp and dātu svara combinations like dgrsndp,prsndpand rgdpare common; snP is a visesha sanchāra. Gamaka varika rakti raga. This raga inspires joy, courage, enthusiasm and heroism and easily cures people suffering from melancholy. Vira rasa can be depicted by this raga. Used in operas. Morning raga. Well distributed. Compositions in this raga commence on the notes: sa, ga and pa.

A closely allied raga is *Desākshi*. The individuality of Desākshi is established by its characteristic phrase in the tāra sthāyi.

The archana and avarchana of Bilahari sung in the viloma-krama (inverse order) results in Garudadhvani srgmpdns—sdpgrs—Janya of the 29th mela.

Sanchāra:-

srgPmgr—gpdSsnndS—pdsrgPmgr S—sndP—dgrsndP— drSsndP—pdpd *ndPmgR—rgddPmgRS—snndS#

Some prominent compositions:

Jatisvar	ram; S , r G P	Adi	
Varna:	Intachauka	,,	Vina Kuppayyar.
Kriti:	$Nar{a}$ jiv $ar{a}dhar{a}ra$,,	Tyagaraja.
• • •	$Dorugunar{a}$ itu	,,	19
,,	Kanygontini	,,	,,
,,	Korivachchiti	,,	,,
,,	$Intakann\bar{a}nanda$	Rūpaka	,,
, ,,	Tolijan mamuna	Jhampa	,,
, ,,	Narasimha	Chāpu	**
,,	Nive gāni	,,	,,
"	Sri Bālasubrahman	yā "	Muttuswamy Dikshitar.
,,	$K\bar{a}m\bar{a}kshi$	Adi	,,
**	Paridānamichchite	Jhampa	Patnam Subrahmanya Iyer.
,,	Ento brahmā- nandamu	Rūpaka	Chinni Krishna Dasa.
,•	Inta parāmukha	Adi	Vina Kuppayyar.
,,	Sārasa dala	Rüpaka	Tiruvottiyur Tyāgayyar.
	Ezhundâle	Chāpu	Arunāchala Kavirāyar.

Samvāda Manninil daru: Chāpu Arunachala Kaviravar.

Kriti Māl maruganai
Tarangam: Puraua mama

Adi Ramaswamy Sivan.

Tarangam: Puraya ma

Nārāyana Tirtha.

Jāvali: Pāri povalera Rūpaka Pattābhirāmayya.

14. Purvakalyani पूर्वकल्याणी

Janya raga; derived from the 53rd melakarta, Gamanasrama.

Arohana :-

srgmpdps

Avarohana:- sndpmgrs

Besides Shadja and Panchama, the notes taken by this raga are: Suddha Rishabha, Antara Gāndhāra, Prati Madh yama, Chatussruti Dhaivata and Kākali Nishāda.

Vakra shādava-sampūrna raga; ārohana alone vakra; eka-svara vakra ārohana. Vārja raga; ni is varja in the ārohana. Upānga raga; gamaka varika raga; ri, ma, dha and ni

are the rāga chhāyā svaras; s d p m g r and s d s are ranjaka prayogas. The phrase p d s occurs rarely. In the phrase g m d m g r s, the dha is slightly flattened. Themes of an entreating nature can be powerfully depicted in this raga. Used in operas. Desiya raga. A characteristically evening raga. Compositions in this raga eommence on the notessa and pa.

The raga Gamakakriya which figures as the 53rd mela in the asampurna mela paddhati is the same as this raga. Purikalyāni is another name for this raga.

Sanchāra:-

srgmPm—gmggrrS—snsrgrG—mgr—gmdmgrS—gmP,m—dpsnrS—snsrgrG
—pmgmggrrS—SsnRS—Ssndpm—pSsndpm—gmpdndpmgr—gmpdpmgr—dmgr
—gmpdPpmgr—pmggrrS—3sndp—snrS
srgrG—pmgr—gmpmggrrS!

Some prominent compositions.

Tāna vo	arna: Ninnu kori	Ata.	Sonti Venkata subbayya.
Kriti:	Paripurna	$R\bar{u}$ paka	Tyagaraja.
• • • • • • • • • • • • • • • • • • • •	Paraloka	Adi	, ,,
,,,	Mınākshi memudam	,,	Muttuswamy Dikshitar
,,	$Ekar{a}mranar{a}tham$	**	,,
,,	Ninnuvināga ma r i N	Iisra eka	Syāmā Sāstri.
,,	Parama pāvana	Adi	Ramnad Srinivasa Iyengar.
,,	Maruva niku	,,	Pallavi Seshayyar.
,,	O Rāma ni nāma	**	Bhadráchala Rámdás.
Nanda: Charitr	$\left\{ egin{array}{l} ar{a}ar{r} \ am: \end{array} ight\} S$ atre vilagi	Rūpaka	Gopālakrishn a Bhā rati .
Jāvali: 28	Nimātalemāyenura	Adi	Pattabhi Ramayya.

15 Kalyani कल्याणि

65th melakarta raga; (to conform to the katapayādi formula, the term 'Mecha' was prefixed to the name of this raga); 5th raga in the XI (Rudra) chakra; Rudra-ma. The most popular and well-known prati-madhyama rāga. A melakarta claiming a large number of janya ragas. In the obsolete nomenclature for the 72 melas, the 65th mela is named Sānta kalyāni.

Arohana: srgmpdns

Avarohana: sndpmgrs

Besides Shadja and Panchama, this raga takes the Chatussruti Rishabha, Antara Gāndhāra, Prati Madhyama, Chatussruti Dhaivata and Kākali Nishāda.

the major ragas and affords scope for elaborate ālāpana. Well distributed. Can be sung at all times; but the effect is decidedly better when sung in the evening.

All great composers and minor composers of note have composed in this raga. All types of compositions are represented in this raga. Useful for singing slokas, padyas and viruttams. Figures in operas. Compositions in this raga begin on the notes, sa, ri, ga, pa and ni. This raga is the ma murchhana of Sankarābharana. The scale of Kalyāni (Yaman that of Hindusthāni music) is met with in Hungarian music. This is the earliest prati madhyama rāga known to musical history and is the ga mūrchhana of sa grama.

Sanchāra:

gmpdnS-sndPmgr-gmpdnDPm-pd nS-snD-dndggrrsnD-dnsrsndPmgr-gmgnDPm--ddpmGr--nrgmPmggrr sndrS #

Some prominent compositions.

Gita:	Kamalajadala	Triputa	_
Varna:	Vanajākshiro	Adi	-
,,	Vanajākshi	Ata	Pallavi Gopālayyar.
Kriti:	Nidhi chāla	Chāpu	Tyagaraja.
	Etāminara	Adi	

Kriti	Sive Pāhimām	Adi	Tyagaraja.
"	Nammi vachchina	Rūpaka	,,
,,	Bhajana sayave	٠,	"
,,	Evar amadugudur	a ,,	"
**	Sundari ni divya	Adi	,,,
**	Amma rāvamma	Jhampa	15
,,	$Kamal\bar{a}mb\bar{a}m$	\mathbf{Adi}	Muttuswamy Dikshitar.
**	Bhajar er e	Chāpu	,,
,,	Talli ninnu nera	Misra lag	hu Syāma Sāstri.
,,	Birāna varā	Rūpaka	"
,,]	Himādri sute	,,	,,
**	Ninu vinā gati	Adi	Subbarāya Sastri.
••	Nidu charana	**	Pallavi Gopālayyar.
,,*	Nija dāsa varada	,,	Patnam Subrahmanya Iyer.
,,	Sarasvati	$R\overline{u}paka$	Tiruvottiyur Tyāgayyar.
,,	Devi Meenākshi	,,	Singarāchārlu.
Pada:	$P\bar{a}rengum$	\mathbf{Adi}	Ghanam Krishnayyar.
,,	Ettaikkandu	$R\bar{u}paka$	Subbarāmayyar.
"	Taiyale unnai	Adi	,,
Jāvali	: Entati kuluke	,,	Pattābhirāmayya.

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APPENDIX

Janya ragas.

No.	Name of the	rial l of its laka	Arohana—Avarohana.
1	Abheri	22	sgmpns—sndpmgrs
2	Abhogi	22	srgmds—sdmgrs
3	Ahiri	14	srsgmpdns—snDp M g [rs
4	Amritavāhini	20	srmpdns—sndmg rs
5	Amritavarshini	66	sgmpns-snpmgs
6	Anandabhairavi	20	sgrgmp*dps—sn*dpmg
	•		L
7	Andolika	22	srmpns—sndmrs
8	Arabhi	29	srmpds—sndpmgrs
9	Ardradesi	15	srgmpdsns—sdpmgrs
10	Asāveri	8	srmpds—snspdmprGrs
11	Atāna	29	srmpns—snDpmpGrs
12	Bahudāri	28	sgmpdns—snpmgs
13	Balahamsa	28	srmpds—sndpmrmgs
14	Bāngala	29	srgmpmrps—snpmrgrs

No.	Name	Melaka No.	arta Arohana—Avarohana
15	Bauli	15	srgpds—sndpgrs
16	Begada	29	sgrgmpdps—sNdpMg [rs
17	Behag	29	sgmpndns—sndpmGrs
18	Bhairavam	17	srgmpdns—sDpmgrs
19	Bhairavi	20	srgmp*dns—sndpmgrs
20	$Bh\bar{u}p\bar{a}l\mathbf{a}m$	8	srgpds—sdpgrs
21	Bhūshāvali	64	srgmpds—sndpmgrs
22	Bilahari	29	srgpds-sndpmgrs
23	Bindumālini	16	sgrgmpns—snsdpgrs
24	Brindāvan a- sāranga	22	srmpns—snpmrgs
2 5	Chandrajyoti	41	srgmpds—sdpmgrs
26	Chhāyānāta	34	srgmpmps-sndnpmrs
27	Chhāyātarangin	i 28	srmgmpns—sndpmgrs
28	Chintamani	56	srpmp *dns—spdpmgrs
29	Chittaranjani	19	srgmpdn—ndpmrgrs
30	Darbār	2 2	srmpdns—s Ndpmrggrs
31	Desākshi	28	srgpds—sndpmgrs
3 2	Desystodi	8	sgmpdns—sndpmgrs

No.	Name	Melaks No.	
33	Devagāndhāri	29	srmpds—snDpMgRs
34	Devakriya	22	srmpns—sndnpmgrs
3 5	Devamanohari	22	srmpdns—sndnpmrs
36	Devāmrita- varshini	22	srgmndns—sndpmgrs
37	Dhanyāsi	8	sgmpns—sndpmgrs
3 8	Dilipakam	2 2	srgrmpndnpdns—snd [pmgrs
3 9	Dipaka	51	sgmpdps—sndnpmgrs
40	Dvijāvanti	2 8	srmgmpds—sndpmgr [gs
41	Gamakakriya	53	srgmpds—sndpmgm [Rs
42	Gamanakriya	5 3	srmpdns—sndpmgmrs
43	Gambhiranāta	36	sgmpns—snpmgs
44	Gānavāridhi	34	smrgmpdns—sdnpmrs
45	Garudadhvani	29	srgmpdns—sdpgrs
46	Gaula	15	srmpns—snpmrgmrs
47	Gaulipantu	15	srm pns—sndpmdmgrs
48	Gauri	15	srmpns—sndpmgrs
49	Ghanta	8	sg*rgmpndns—sndpm [grs

No-	Name M	elaka No.	rta Arohana—Avarohana
50	Gopikāvasantam	20	smpndnds—sndpmgs
51	Gopriya	62	srg mdns—sndmgrs
52	Gujjari	15	srgmpdns—sdnpmgrs
53	Gumma kambhoji	15	srgpdnds—sndpmgrs
54	Gundakriya	15	srmpns—snpdpmgrs
55	Hamirkalyani	65	spmpdns—sndpgmgrs
56	Hamsadhvani	29	srgpns—snpgrs.
5 7	Hamsanādam	60	srmpdns—sndnpmrs
58	Hamsānandi	53	srgmdns—sndmgrs
59-	Hindolam	20	smgmdns—sndmgs
60	Hindolavasanta	22	sgmpdnds—sndmgrgs
61	Hindusthān kāpi	22	srmpns—sndnpmgrs
62	Huseni	22	s R G m p n d n s—s n d p M g [r s
63	Isamanohari	28 .	srgmpdns—sndpmrm [grs
64	Jaganmohini	15	sgmpns—snpmGrs
65	Janaranjani	29	srgmpdpns—sdpmrs
66	Janjhūti	28	dsrgmpdn—dpmgrs [ndpds
67	Jayamanohari	22	srgmds—sndmrs

No.	Name I	Melakarta Arohana — Avarohana No.
68	Jayanārā ya ni	22 srGmpds—sndpmgrs
69	Jayantasena	22 sgmpds—sndpmgs
70	Jayantasri	20 sgmdns—sndmpmgs
71	Jingla	30 srgmpdndps-sndpm [grs
72	Jujāhuli	28 smgmpdns—sndpmgs
73	Kaikavasi	60 argmpdns—snpmgra
74	Kalagada	13 srgpdns—sndpgrs
7 5	Kalānidhi	22 srgmspmdns—sndpm [grs
76	Kalāvati	16 srmpds—sdpmgsrs
77	Kamalāmanohari	27 sgmpns—sndpmgs
78	Kambhoji	28 srgmpds—sndpmgrs
79	Kānada	22 Isrgm Dns-snsDpmp [Gmrs
80	Kannada	29 sgmpmdns—snsDpm [Gmrs
81	Kannadabangāla	lő srmgmpds-sdpmgrs
82	Kannadagaula	22 srgmpns—sndpmgs
83	Kāpinārāyani	28 srmndns—sndpmgrs
84	Karnātaka byāg	28 srgmpdns—sndnpdm
2	9	lg r g s

No.	Name	Melakt No	
85	Karnātaka kāpi	22	srGmpdns—sndpmg [mrs
86	Katana kutühalar	n 29	srm Dngps—sndpmgrs
87	Kedāragaula	28	srmpns—sndpmgrs
88	Kedāram	29	smgmpns—snpmgrs
89	Khamās	28	smgmpdns—sndpmg [rs
90	Kiranāvali	21	srgmpdns—spmgrs
91	Kokiladhvani	28	srgmdnds-sndnpmgrs
92	Kolāhalam	29	spmgmpdns—sndpmgrs
93	Krishnaveni	15	srgmpns-snpmgrs
94	Kuntalavarāli	28	smpdnds—sndpms
95	Kuranji	29	snsrgmpd—dpmgrsns
96	Kutühalam	29	srmndpns—sndpmgrs
97	Lalita	17	srgmdns—sndmgrs
98	Madhyamāvati	22	srmpns—snpmrs
99	Malahari	15	srmpds-sdpmgrs
100	Mālavasri .	22	sgmpndnpdns—sndp [mgs
101	Mālavi	28	srgmpnmdns—sndnp [mgmrs

No	Name 1	I elak	
		No) .
102	Malayamārutam	16	srgpdns-sndpgrs
103	Mallikā vasantam	15	sgmpns—sndpmgrs
104	$\mathbf{M}\mathbf{\tilde{a}n}\mathbf{d}$	29	sgmpds—sndpmgrs
10 5	Mandāri	51	srgmpns—snpmgrs
106	Mangalakaisiki	15	smgmpmdns-sndpm
107	Manirangu	22	srmpns—snpmGrs
108	Manjari	22	sgrgmpndns—sndpm [grs
109	M ānji	20	srgmp*dns—sndpmpg [rs
110	Manohari	2 2	sgrgmpds—sdpmgrs
111	Mārgahindola	22	srgmpdns—sndmgs
112	Mechabauli	15	srgpds—sndpmgrs
113	Mechakāngi	5 3	srgmpdpns—snpdpm [grs
114	Megharanji	15	srgmns—snmgrs
115	Mohana	2 8	srgpds—sdpgrs
116	Mukhāri	22	srmpnds—sndpmgrs
117	Nabhomani	40	srgrmps-sadpmgrs
118	Nādachintāmani	22	sgmpndns—sndpmgr

No.	Name Me	laka No.	rta Arohana—Avarohana
119	Nadanamakriya	15	srgmpdn-ndpmgrsn.
120	Nādatarangini	22	spmrgrs—spndpmgrs
121	Nāgasvarāvali .	28	sgmpds—sdpmgs
122	Nalinakānti	27	sgrmpns—snpmgrs
123	Nārāyanagaula	28	srmpndns—sndp m gr [grs
124	Nārāyani	28	srmpds—sndpmrs
125	Nāta	36	srgmpdns—snpmrs
126	Nātakuranji	28	srgmdns—sndmgs
127	Navarasa kalānidh	i 28	srmps,ns-sdpmgr,s
128	Navarasa kannada	28	sgmps—sndmgrs
129	Navaroj	29	p dn srg m p-m grs
			[n d p
130	Nāy a ki	22	srmpdNdps—sNdpmr [Grs
131	Nilāmbari	29	srgmpdpns—snpmgr [gs
1 3 2	Pādi	15	srmpns—snpdpmrs
133	Palamanjari	22	sgmds—sndpmGmrs
134	Panchama rāga	22	srdpns-sndpmgrs

No.	Name	Melak No	
135	Pantuvarāli	51	srgmpdns-sndpmgrs
136	Paraju	15	s G m p d n s—s n d p m g r s
137	Pratāpa varāli	· 28	srmpdps—sdpmgrs
13 8	Pravālajoti	28	srmpdns—sndnpmgs
139	Punnāgavarālī	8	n srgmpdn—ndpmgrsn
140	Pürnachandrika	29	srgmpdps—snpmrgm
141	Pūrnalalita	19	sgrmps—sndpmgrs
142	Pūrnashadjam	22	srgm Ns—snpmGrs
143	Pürvakalyāni	5 3	srg mpd ps-sndpm grs
144	Pūrvi	15	srgmpdnds—sndpmd [mgrs
145	Pushpalatikā	22	srgmpns—snpmgrs
146	Rāgapanjaram	28	srmpdnds—sndmrs
147	Ramā manohari	52	srgmpdnds—sndpmgrs
148	Ranjani	59	srgmds-sndmgsrs
149	Rasāvali	4	srmpdns—sdpmrs
15 0	Ravichandrika	28	srgmdnds—sndmgrs
151	Revagupti	15	srgpds—sdpgrs
152	Ritigaula	20	sgrgmndmnns—sndm [gmpmgrs

No.	Name	Melak No	
153	Rudrapriya	22	srgmpdns-snpmGrs
154	Sahāna	28	srgmpmDns-sndpm [GmRgrs
155	Saindhavi	22	ndnsrgmpd N-dpmgr [sndns
			· · · · · · · · · · · · · · · · · · ·
156	Sālagabhairavi	22	srmpds—sndpmgrs
157	Sām a	28	srmpds—sdpmgrs
158	Sāramati	20	srgmpdns—sndmgs
159	Sāranga	65	srgmpdns—sndpmrg*m [rs
160	Sāranganāta	15	srmpds—snsdpmgrs
161	Sarasvati	64	srmpds—sndpmrs
162	Sarasvati manohari -	28	srgmds—sdnpmgrs
163	Saurāshtram	17	srgmpdns—snDpmgm [Rs
164	Sāveri	15	srmpds—sndpmgrs
165	Siddhasena	22	sgrgmpds—sndmpmr [grs
166	Sindhu kannada	28	smgmrgmpdps-sndp [mgrs
167	Sindhu mandāri	29	ergmps-sadpgmdpm
			lr s

No	. Name	Melal No	karta Arohana—Avarohana O.
168	Sindhu rāmakriya	15	sgmpdns—snpdpmgs
169	Srimani	2	sragpds—sndpgrs
170	Sriraga	22	srmpns—snpdnpmrgrs
171	Sriranjani	22	srgmdns—sndmgrs
172	8rutiranjani	61	srg m p d n—n d p m g s r s
173	Suddha bangāla	22	srmpds—sdpmrgrs
174	Suddha desi	20	srmpdns—sndpmgrs
175	Suddha dhanyāsi	22	sgmpnps-snpmgs
176	Sudoha rāga	· 5 7	srgmpn s-snpmgrs
177	Sudhā tar ngini	28	srg.armpduds—sndp
178	Suddha säveri	29	srm pds-sdemre
179	Suddha simantini	8	srgmpds-sdpmgrs
180	Suposhini	28	srsmpnds-sdnpmrms
181	Supradipam	17	srmpdns—sndpmgmrs
182	Surati	28	srmpns—sndpmgpmRs
18 3	Svarabhūshani	22	sgmpdns-sndpmrs
18 4	Svarāvali	28	smgmpndns—snpdmg
185	Svaravedi	28	mgmpndns—sndnpm

No	Name]	Melaka No.	그래요. 그리고 아니는 그리고 있는데 그는데 그는데 그는데 그는데 그는데 그리고 있는데 그리고 있다면 그리고 있
186	Tivravāhini	46	srgmpdpns-sndpmg [rgmrs
187	Udayaravi- chandrika	. 22	sgmpns—snpmgs
188	Umābharanam	28	srgmpdns—snpmrg m [rs
189	Valaji	28	sgpdns-sndpgs
190	Vasanta	17	sgmdns—sndmgrs
191	Vasantabhairavi	14	srg mdns-sndm pmgrs
192	Vasanta varāli	24	srmpdn-{ ndpmgrsn ndpmgrsn
193	Vegavāhini	16	srgmpdnds-sndpmgrs
194	Vijayanāgari	58	srgmpds-sdpmgrs
195	Vijayasri	41	sgrgmpns-snpmgrs
196	Vijayavasanta	54	smpdns-snpmgs
197	Viravasantam	24	sgrmps—sndpmgrs
198	Vivardhani	28	srmps-sndpmgrs
199	Yadukula kāmbhoji	28	srmpds—sndpmgrs
200	Yamunākalyāni	65	srgpmpds-sdpmpgrs

OUESTIONS

Technical terms :-

1. Explain the following terms:-

(a) Ghana panchaka, eduppu, svayambhu svaras, pātam, katakam, madhyama sruti.

(b) Graha, nyāsa and amsa; vādi, samvādi, anuvādi

and vivādi.

2. Write short notes on :-

(1) Trayodasa lakshanas, (2) Shodasāngas, (3) Katapayādi sankhya, (4) Tāla dasa prānas, (5) Group kritis, (6) Svarāksharam, (7) Manipravāla sāhitya (8) Trikāla sādhakam.

Melakarta scheme :-

Explain the following :-

(a) Katapayādi sankhya (b), Mela mnemonies

(c) Asampurna mela (d) Vivadi mela.

4. Mention the three characteristic features of a melakarta.

5. Explain the statement that in the seventy-two melakarta scheme:—

(a) the purvanga notes remain constant within

each chakra,

(b) the uttaranga notes repeat in the same order in the six melas of each chakra.

What do you mean by the statement that the note
 ma is the bisecting line in the melakarta scheme?
 Name the chakras wherein both the notes, chatusaruti

 Name the chakras wherein both the notes, chatusgruti rishabha and sādhārana gāndhāra are met with.

8. Name the purvanga svaras figuring in the II, V, IX and XII Chakras?

9. Give examples of janya ragas which figure as melas in the asampurna mela paddhati.

 Name a pūrva mela, whose uttarānga svaras are the same as those of the mela, Nāmanārayani.

Name an uttara mela of the bhu-type and which
takes the ii of the IV chakra and the ya of the VI
chakra.

 Give the svaras tsken by the six melakartas of the X chakra. What are the serial numbers of the melas taking the suddha ri, antara ga and prati ma.

14. Mention the serial numbers of the melas signified

. by the following phrases:-

(a) Netra - bhu (b) Disi · pa (c) Agni - ma (d) Veda - sri (e) ra gi mi dhi nu

(f) ri gi ma dha na

 Find the serial number of the sha-type mela of the VI chakra and the go-type mela of the X chakra.

 Give the names of the VI and XI chakras and name the svaras figuring in their purvanga.

the svaras nguring in their purvanga.

17. Find the serial numbers of the followigg melakartas:— Jhankāradhvani, Nāsikābhushani, Mānavati and

Dhavalāmbari. (The application of the *katapa-yādi formula* should be clearly shown).

18. To which chakra does the 58th melakarta belong? Name its corresponding suddha madhyama karta.

- 19. Determine the serial number of the mela which takes:—
 - (a) the pūrvānga of Māraranjani and the uttarānga of Navanitam.

(b) the uttaranga of Nasikabhushani and the purvanga of Rupavati.

 Name the chakra to which the mela, Jalārnavam belongs.

 Draw a diagram of the Vina finger-board and mark on it the svarasthānas for the 62nd melakarta.

22. Mention the serial numbers of the suddha madhyama melakartas taking the shatsruti ri and kākali ni.

23. Give the serial numbers of all the uttara melas taking the chatuscruti dha and kaisiki nt.

24. Determine the serial number of the mela Dhātuvardhani. Name the tāla, the aksharakāla value of whose avarta is equal to \(\frac{1}{3}\) of this number.

 Name the chakras to which the uttara melas of the following melas belong: — Senāvati, Gāyakapriya

and Vägädhisvari.

26. Determine the serial numbers of the purva melas of the following: — Pāvani, Nāmanārāyani and Sucharitra. 27. Name the melas from which an audava raga taking besides sa and pa, the notes antara qa, suddha ma and chatussruti dha can be deemed to be derived.

28. Mention the syaras taken by :--

(c) the 5th mela in the Veda chakra.

(b) the 2nd mela in the Rudra chakra.

Give the names of two melas, the difference of whose 29. serial numbers will be equal to the serial number of the mela Gavambhodhi.

Name two melas, the product of whose serial numbers 30. is equal to the serial number of Naganandini.

Name the svaras taken by the mela, whose serial 31. number is equal to the root of the serial number of Māraraniani

Calculate the serial number of the mela that would 32. result when the ri of Gamanasrama is raised a

semitone and its ma lowered a semitone.

33. Give the names of two melas, the difference of whose serial numbers is equal to the serial number of the mela Salagam.

Determine the serial number of the mela that would 34. result when the ga and ma of Kharaharapriya are

raised a semitone

Calculate the serial number of the melakarta in the 35. Aditya chakra taking the notes suddha dhaivata and kaisiki nishāda Name the tala whose aksharakāla - value for an āvarta is equal to onefourth of this number.

What are the possible melas that can be assigned to 36. the audava raga sgpdns-sndpgs and taking the notes, antara gandhara, chatussruti

dhaivata and kaisiki nishāda.

How do you account for the existence of nomenclatures for the 72 melas?

Raga :-

- Classify the janya ragas. 38.
- Classify the varja ragas. 39.

Classify the vakra ragas. 40.

Is it possible for a janya raga to take all the seven 41. notes in both the archana and avarchana and still

differ from its janaka raga? Discuss. Illustrate your answer with examples.

42. Write short notes on :-

(a) Vakra raga (b) Sankirna raga (c) Dhaivatāntya raga (d) Chhāyālega raga (e) Rakti raga (f) Dātu svara prayoga (g) Ekānyasvara bhāshānga raga

43. Give examples of bhashanga ragus wherein: -

(1) the kākali nishāda is the accidental.
(2) the kaisiki nishāda is the accidental.

(3) the chatussrufi dhaiyata is the accidental.

44. Point out the accidentals if any, in the following ragas and indicate the sancharas wherein they occur:

(a) Bhairavi, (b) Kāmbhoji, (c) Bilahari.

45. Explain the origin of bhāshānga ragas?

46. How do you account for the universal occurrence of the Mohana raga?

 Enunciate the rules observed in fixing the janaka melas for bhāshānga ragas.

- 48. Some scholars are of the view that 'janya ragas might be allocated to the earliest possible melas in the scheme of 72'. Examine the soundness of this statement.
- 49 In addition to the Janaka-Janya system, from what other points of view have ragas in general been classified?
- 50. Give examples for the following kinds of ragas:
 - (1) An audava-sampūrna raga derived from the 29th mela.

(2) An upanga raga derived from the 28th mela,

- (3), A raga wherein *ceruna* rasa is the dominant feeling.
- (4) A raga which has no sanchāra below the mandra sthāyi nishāda.

(5) An early morning raga.

(6) An evening raga.

(7) A mela raga popularised by Tyāgarāja.

(8) A raga whose individuality is easily revealed by madhyama kāla sanchāras. 51 In the ragas, Bhairavi and Bilahari, give four phrases of your own, containing the accidentals.

52. Write six musical phrases of your own in each of

the following ragas :-

(a) Chakravākam, (b) Mohana, (c) Khamās,

Sankarābharana, (e) Kedaram (f) Pūrva kalvāni

Give short sancharas in each of the following ragas 53. and mention a few prominent compositions under each :

(a) Kāmbhoji, (b) Suddha sāveri, (c) Kalyāni:

Give the janaka ragas for the following janya 54. ragas :

(a) Mohana, (b) Arabhi, (c) Bilahari.

Write the archana and avarchana of a sampurna-55. audaya raga, wherein the 4th and 7th notes are deleted.

What will be the resulting raga when the ga and ni 56.

of Todi are raised a semitone.

What will be the resulting raga when the ri, ma **57**. and dha of Mayamalavagaula are raised a semitone.

What ragas are useful for being sung at the com-58.

mencement of concerts and why?

Name two janya ragas belonging to the same mela 59. and the archana and avarchana of one of which happens to be the avarohana and arohana of the other.

Write the arolana and avarohana of an audava-60. shādava raga and wherein the ga is deleted in the arohana and the ni is deleted in both the arohana

and avarohana

Name two ragas wherein the gandhara happens to 61. be a resting note and around which vou can

weave an ālāpana.

(a) In the ragas Bhairavi and Kambhoji, name the 62notes on which you can rest and develop an Give a few illustrative sancharas ālāpana. under each.

(b) On which svaras do compositions in Bhairavi

and Sankarābharana commence?

63. Point aut the visesha sancharas in the following ragas and cite the relevant portions of compositions wherein they occur:—

(a) Sankarābharana, (b) Purvakalyāni,

(c) Chakravākam, (d) Kedāram.

64. Give two rakti prayogas for each of the following

(a) Bilahari, (b) Bhairavi, (c) Kedāram.

55. Give an example each for the following:

65. Give an example each for the following:—
(a) a raga whe ein ga is both a jiva svara and a nyāsa svara

(b) a raga wherein ga is not a nyāsa svara.

66. In bhāshānga ragas, iş it possible for anya svaras to be nyāsa svaras as well? Explain.

Tala:

67. Explain the terms :-

(a) Khanda gati, (b) Druta laya, (c) Atita graha,

(d) Nissabda kriya.

 Explain how each of the seven principal talas admits of 25 varieties.

69. Are talas other than the 35 sūlādi talas used in Karnātic music? If so, name them.

70. Mention five talas used in Karnātic music, wherein the āvartas consist of seven aksharakālas each

71. Distinguish between:

(a) Desādi and Madhyādi talas.

(b) Tisra Chāpu and Misra Chāpu talas.

72. Name a tala whose aksharakāla-value for an āvarta is equal to the serial number of Kharaharapriya.

Musical form:

73. Give some examples of:

(1) Instrumental forms.

(2) Musical forms which contain jatis in their dhātu.

74. Explain the significance of the sāhitya of an ordinary lakshana gita and a rāgānga rāga lakshana gita.

75. (a) What are the constituent angas of a tana varna?

(b) Estimate the value of the varna composition as compared with other musical forms, 76. If in a tana varna, the order of the ettugada svaras is changed and given to you, can you re-arrange them in the order intended by the composer?

If you can, how will you proceed?

77. Point out the utility in practising tana varnas.

78. What do you mean by technical beauty in a musical composition? Illustrate your answer with examples.

79. Give the lakshana of a kriti composition and point out how composers have attempted to beautify this type. Illustrate your answer with examples.

80. Point out the extent to which a performer can display his creative talents in kritis and varnas.

81. (a) What is a rāgamālika? Write its lakshana.

(b) Enunciate the principle, if any, underlying the order of succession of ragas in ragamalikas.

(c) Mention the names of some wellknown ragamalikas. Write short notes on them and also give the names of their composers.

(d) What is the 1 inimum number of ragas that

should be present in a rāgamālika.

82. An unfamiliar ragamalika composition, conforming in full to the lakshana of the form, is given to you, but with the order of the charanas changed. Can you re-arrange the charanas in the order intended by the composer? If so, outline the procedure that you will adopt.

83. (a) Write short notes on the matu of a pada, javali,

pada varna and daru.

(b) In what compositions do you get the jatis or the tala-solfa (rhythmic) syllables?

84. Mention the names of composers, who:-

(1) signed their compositions with their own name:

(2) signed their compositions with names other than their own:

(3) did not introduce any mudra at all.

85. Comment upon the nature of the sahitya in the following types of compositions: —

- (a) Pada varna, (b) Pada, (c) Rāgamālika,
- (d) Jāvali, (e) Tillana.

86. Mention a composition having two pallavis.

87. In what types of compositions is the anupallavi a dispensable anga.

88. Mention the names of four prominent composers of (a) kriti, (b) varna, (c) rāgamālika and (d) pada.

89. Explain the following:

(a) Chitta svara, (b) Ettugada pallavi, (c) Solkattu svara, (d) Svarākshare, (e) Sangati (f) Upānga khanda.

 Name the forms wherein the sahityas relate to nayaka-nayaki theme. Write brief notes on them

91. Name a form wherein the signature of the composer

may occur in the pallavi or anupallavi.

92. Write the lakshana of the forms: Padam, Tillāna and Jāvali. Mention the names of prominent composers of these three forms and point out the signatures adopted by them.

93. Write short notes on :-

(a) Navaratnamālika, (b) Tillāna daru.

(c) Kālahastisa Pancharatnam (d) Navāvarana

kirtana, (e) Svarasthana padam.

94. Are there instances of tunes having specific names?

If so, name them. Give two of those tunes in notation.

95. From the compositions familiar to you, give an example each for the following:—

(a) Where the commencing notes of the pallavi

and the anupallavi are an octave apart.

(b) Where the above notes bear the samvādi relationship.

96. Suppose you are given the bare sāhitya of a musical composition, how will you proceed to determine whether it is that of a svarajati, varna, kriti or padam.

Folk music.

97. What are the characteristics of folk-songs and how would you classify them?

98. Mention the ragas and talas figuring in folk songs.

- Write a short essay on the musical aspect of folk songs.
- 100. Suppose a gramophone record of a song is played to you, how will you determine whether it is a specimen of art music or folk music?

Musical Instruments:

- 101. Name the three main heads under which musical instruments are generally classified.
- 102. Briefly classify the stringed instruments.
- 103. Briefly classify the wind instruments
- 104. Briefly classify the percussion instruments.
- 105. Classify the bowed and plectral varieties of instruments.
- 106. Classify the fretted instruments.
- Name the instruments used in Concert music, Temple music and Martial music.
- 108. Write short notes on :-
 - (a) Chinna melam. (c) Naubat.
 - (b) Periya melam. (d) Sarva rāga mela vina.
- 109. Give examples for the following:-
 - (a) A wind instrument without finger-holes.
 - (b) A percussion instrument capable of being tuned.
 - (c) A stringed instrument with two bridges,
 - (d) A stringed instrument provided with guts and metallic strings.
 - (e) A stringed instrument with metallic strings alone.
 - (f) A plectral instrument wherein the playing fingers are not in contact with the strings.
- 110. Name two plectral instruments used in South Indian concerts.
- Mention the instruments figuring as accompaniments in concerts of Karnatic music.
- 112. Is the compass of the Vina or the Violin altered by tuning it in madhyama sruti?
- 113. Distinguish between monophonous and polyphonous instruments. Give two examples under each.

114. Give two examples for each of the following:

(a) A stringed instrument with a plain finger hoard.

(b) A fretted instrument of the bowed group.

(c) An instrument with a compass of more than three octaves.

115. Name the instruments on which one can play simultaneously in two octaves.

Mention the names of two sruti vadvas. 116.

Name the wind instruments used in concerts of 117. Karnatic music.

118. Point out the utility of the sound post and the

mute in the Violin.

How do you account for the fact, that when the 119. sārani string of a correctly tuned tambura is plucked, the other sarani string vibrates of its own accord ?

General.

120. Explain the different branches of Manodharma sangita?

Discuss if Karnatic music has profited by coming 121. into contact with other systems of music.

Give examples of South Indian ragas figuring in 122. other systems of music.

Mention the important factors that contribute to 123

the excellence of a concert.

What is the compass of a well cultivated human 194 voice? Name a concert instrument whose compass is nearly the same as that of a well cultivated homan voice.

125. If in his usual pitch, the highest note that a singer can reach is the tara sthavi madhyama, what is the highest note that he can reach in the madhvama sruti?

126. Point out the requisites of an ideal concert hall. 127.

Write a short essay on the utility of the gramophone. A person A, driving a motor car along a road, hears 128 the note of the horn of another motor car driven by B in the opposite direction, and finds that the note of his motor-horn and that of B's are related as Shadja and Chatuseruti Rishabha respectively. After some distance, A hears the note of the horn of another motor-car driven by C in the opposite direction and finds that the note of his motor-horn and that of C's are related as Shadja and Antara Gāndhāra respectively. If B hears the note of the horn of C's motor-car, how will the note strike him? Explain.

129. In a music school there were three classes in Instrumental Music, teaching Violin, Vina and Sitār. To a visitor, who visited the three classes in succession, the srutis of the three classes impressed him as Shadja, Chatussruti Rishabha and Sādhārana Gāndhāra respectively. If he had visited the classes in the following order, viz, Vina, Sitār and Violin, how will the Sruti notes of the three classes have impressed him? Explain.

130. A Vina specially made, has five strings passing over the finger-board. The four strings are tuned as in the ordinary vina and the fifth string is tuned to the Shadja immediately below the note given by the fourth string. What will be the compass of the instrument? Explain with a diagram.

PASSAGES FOR SIGHT SINGING.

Bhairavi — Rupaka.

m p d n Š
mndP,
mgmp mgrs
ndnS,

grr Snsrgm Pmpd grr Snsrgm Pmpd ggr Ssn Redaram—Adi. 3. Kedaram—Adi. 4. In pingle of the pin		d p s n r S	90 F		G, r S:	s r 8 S;	S	P, m G, r S II		and a few do not	Manasā veritarula dalachaku	ay's	and are not stressed		.1-46.
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