



LETTER-BOOK

P. 300

School _____

Name _____

Class _____ Subject _____

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BOMBAY 1

MUSIC

I. BILAWAL THATA

1. The parent scale now in use with all svaras shuddha.
2. Corresponds to the major diatonic scale of European music. Has the first tetrachord of the European major mode, with a slight sharpening of the sixth. Suddha or Tivra Dha in the second half.
3. The corresponding 8. Carnatic raga is the Shankarabharan, but the Karnasvraya is also very close. If fa is added to the latter, it becomes the Hindusthani Bilawal.
4. With the exception of Ma, all the other notes are flats to the Suddha note.

S R G. M P D or n̄ N S̄
c D E F G A # A BC

I. The Bilawals (12)

1. Bilawal Shuddha, calm with joy
2. Alopiya Bilawal = ~~two~~ ni, both Komal and shuddha
3. Shukla Bilawal
4. Nata Bilawal
5. Kukuba Bilawal
6. Durga Bilawal (Snadhasaveri)
7. Deepak Bilawal
8. Pahari Bilawal
9. Patmanjari Bilawal
10. Yemeri Bilawal

THE BIHAGS

- 1. Bihag Shuddha (nat. C) love, tenderness
- 2. Pat Bihag
- 3. Nat Bihag
- 4. Bihagra

- 6. Bihagdar
- 7. Bihagdar
- 8. Bihag
- 9. Bihag
- 10. Bihag
- 11. Bihag
- 12. Bihag
- 13. Bihag
- 14. Bihag
- 15. Bihag

OTHERS:

1. Sarparda
2. Devagiri
3. Lachasak
4. Shankara
5. Deshkar
6. Maluhakedar .
7. Jaidharkedar
8. Nata
9. Madha or Madham
10. Gunakeli
11. Asha
12. Kamabranjani
13. Chandrika
14. Chakradhar
15. Jairaj

16. Bhavani
17. Bhishkadoz
18. Mand
19. Rasranjani
20. Raschandra
21. Lajwanti
22. Hansdhoni
23. Hem kalyan
24. Savani Kalyan or Kajri
- 25.

II. KALYAN THATA

- 1. Uses tivra ma in place of suddha Ma of Bilaval.
- 2. The corresponding Carnatic raga is Mechakalyani.
- 3. This is the Lydian authentic mode with the addition of F \sharp .
- 4.

S R G ~~F~~^{m'} P D \sharp n⁻ NS
 C D E F \sharp G A A BC

THE KALYANS

1. Kalyan Shuddha (Mechakalayani) Merriment, Evening.
2. Jayat Kalyan
3. Yamen Kalyan - Merriment
4. Shyam Kalyan
5. Lakshmi Kalyan
6. Raj Kalyan
7. Shri Kalyan
8. Hanirkalyan (Hanirkalyani) Merriment, evening

OTHERS:

1. Bhupali (Mohanam) pentatonic, Sweetness, Moon
2. Chandrakanta
3. Puriya
4. Hindol - Calm and joy
5. Malashri
6. Kedar - Gaiety
7. Hamir
8. Kamode
9. Chaya
10. Chayanant
11. Nat Narayan
12. Gand Sarang (lower tetrachord in the Greek diatonic, similar Greek scale)
13. Yemen
14. Nand
15. Maru Bihag
16. Malarani

- 17. Vaipyanti
- 18. Sanjh Hindol
- 19. Nisag
- 20. Kumari

III. THATA KHAMAJ

ke ~~10~~

1. Khamaj takes ni Komal

S R G M P D n S
C D E F G A B C

2. Hypo = Lydian plagal mode (?)
3. Corresponding Carnatic raga = Harikambodhi

1. Khamaj (Nat. C.) Love
2. Thinghoti (Nat. C.) (Harikambodhi), Imploring, praise, Night, Love
3. Sorath
4. Desh
5. Khambarati
6. Tilang - Quiet
7. Durga Khamaj
8. Rageshwari
9. Jaijyanti
10. Gara
11. Tilak Kamode
12. Kalavati *Khamaj*
13. Khokhar
14. Gorakh Kalyan

15. Champak
16. Champakali
17. Nag Svarawalli
18. Nat Kuranjika
19. Narayani
20. Shyam Kedar
21. Saraswati
22. Sajan
23. Hanoshri
24. Pahari Khamaj
25. Lung
26. Shankarabharan
27. Bihagra Khamaj

IV. THATA MARWA

1. Marwa takes ri komal and tivra ma
2. Marwa differs from Purvi in using Suddha and Tivra Dha for Komal Dha

S + G m P D or n N \bar{S}
 C DB E F# G A A# B C

3. Corresponding Carnatic raga = Gamana priya

1. Marwa, (Groomanapriya) Passion, evening
2. Puriya
3. Sohni
4. Lalit
5. Basant
6. Jayat
7. Shankara
8. Bibhas
9. Bhatihar
10. Sazagiri
11. Maligaura
12. Pancham
13. Gauri
14. Purav Kalyan
15. Malin

16. Varati

17. Bangali

18. Mangal

19. Rajaraja

V. THATA TODI

1. Ri Komal and ga Komal, dha Komal
2. First part of the tetrachord of Bhairavi and the second part of Purvi and using the sharpened fourth. It also makes use of a sharpened seventh, somewhat sharper than suddha Ni.

S r g m P d N_{or} N⁺ S⁻
 C D_b E_b F[#] G A_b B B[#] C

3. In this group microtonal variations are frequently used. The Ri will be atikomal and the Dha and Ma will be less than the full sharpened semitones.
4. This group probably arose from an ancient enharmonic scale basis. The corresponding Carnatic raga = Subhapantuvanti

1. Todi Shudha (Subhapantumarali) Adoration, evening
2. Gurjari Todi
3. Desi Todi (Nat. C) dhairat to dhairat, just major
4. Lakshmi Todi
5. Miyaki Todi
6. Ferozkhani Todi
7. Bahaduri Todi
8. Darbari Todi
9. Sughrayi Todi
10. Todi Mudra
11. Todi Suha
12. Multani - Calm

VI. THATA ASAVARI

1. ~~Asavari~~

2. ~~Jaijapuri~~

3.

1. Ga, dha and ni all Komal

2. Differs from the Kaphi group in the use of Dha Komal for

Suddha dha

S R g M P d n \bar{S}

c D E B F & Ab BbC

1. Asavari (Natabhairavi) Tenderness
2. Jaunpuri
3. Gandhari (Gandharava)
4. Khat
5. Sindhu Bhairavi (Nadabhairavi) Sad, night
(same as the Hypo = Dorian plagal mode)
6. Kosiiki Kanada
7. Darbari Kanada
8. Ziloph
9. Deshi
10. Adana
11. Abheri
12. Anand Bhairavi
13. Komal Desh
14. Gopi Basant

15. Jangla

16. Jeevanpuri


17. Dev Gandhar

VII. THATA BHAIRAV

1. Ri and dha komal; ^{sometimes} ~~ra~~ ni is also komal in meerkh, but just touched; other times incipient ni, just touched or ^{gloried over}
2. Corresponding Karnatic raga is Mayamalava ganla.
3. Some people have suggested this as the shudha scale x

S r G M Pd or D n or N \bar{S}
 C D b E F G A b A \flat B b B \flat C

4. The Arabs have a mode similar to this called Hzaz.
5. This may have developed from the old raga Mukhari (now called Kanakangi) by a modal shift of tonic one semitone higher, just as the Greek scale has done.

1. Bhairav - Reverence, dawn
2. Shiramati Bhairav
3. Ananda Bhairav (Chakravakem), Love, any time
4. Ahiri Bhairav
5. Gouri Bhairav
6. Kousi Bhairav
7. Bangal Bhairav
8. Kalingra (Nadanamakriya) Calm, 
9. Megharanjani
10. Saurashtra
11. Jogia - (Saveri) Adoration
12. Ramkali
13. Prabhati
14. Bibhas Bhairav
15. Lalit Pancham (Suryakanta) Tenderness

16. Gunakri
17. Araj
18. Ziloph Bhairav
19. Devranjani
20. Saveri
21. Hijaji

VIII. THATA KAFI

1. ^३Dha and ni Komal; ga both Komal and Shuddha
2. Corresponds to the Karharapriya of Karnatic music.
3. Was the parent scale in earlier times; a nearly modern Kafi was the shuddha scale of Lochana Pandit. ~~Mukhari in this thata was the shuddha scale in the of Pundarik.~~

S R g M P D n \bar{S}
C D Eb F G A Bb C

4. This is the Dorian mode. Similar to Sama gana scale. minor mode.

1. Kafi (Karaharapriya), Passion, noon
(Dorian mode, similar to Samagam scale)
2. Dhanashree - Calm
3. Saundhavi
4. Dhani
5. Bhimpalavri - Quiet
6. Pradipaki
7. Pilu
8. Hansakankani
9. Bageshwari
10. Bahar
11. Suha
12. Sughrayi
13. Kausika, Kowshik or Koshijan
14. Shahana
15. Nayaki
16. Kanada

17. Patmanjari Kafi
18. Nilambari
19. Barwa
20. Malgunji or Malgazar
21. Rajeshwari
22. Shivanjani
23. Hanomanjari
24. Sindhu
25. Mukhari
26. Deosag
27. Gaur Suddha
28. Suravi
29. Revati Kanada
30. Hussaini Kanada
31. Gauri (Dhenuka of Carnatic)

IX. THE SARANGS (8)

1. These deserve to be raised to the status of a thata; or at least a sub-thata.
2. Both Pundarik in his Raga Chandrodaya and Lochan Pandit in his Sangitragini gave it the status of a thata.
3. Shudha serang being sampurna = sampurna the task is easier.

1. Sarang Shuddha - (Madhyamavati) contemplation and illusion
2. Madhumadhava sarang
3. Brindabani sarang (Nat. C.)
4. Samanta sarang
5. Miyaki sarang
6. Badahansa sarang

X. THE MALHARS (13)

1. These two deserve to be raised to the status of a thata.
2. Lochana Pandit did give them a status of a thata under the title of Megh.

1. Sur Malhar
2. Ramdasi Malhar
3. Mijaki Malhar
4. Megh Malhar
5. Gand Malhar
6. Nat Malhar
7. Mira Malhar
8. Malhar Shudha

XI. THATA PURVI

1. Ri and dha komal; ma both tivra and shuddha
2. Differentiated from the Bhairava group by the use of Ma Tivra instead of Ka Shuddha

S r G m P d N \bar{S}
 C Db E F# G Ab B C

1. Purvi (Kamavardhani) mystery
2. Gauri - Laughter
3. Reba
4. Shri - Mystery and contemplation
5. Deepak
6. Tribeni
7. Malavi
8. Tanki
9. Jetashree
10. Basant
11. Purva Dhanashree
12. Paraj (Nat. C.)
13. Chandrakalyan
14. Manohar
15. Lalit Gauri
16. Shri Tank
17. Jayant
18. Dhanashree
19. Bairati

8p

XII. THATA BHAIRAVI

1. Ri, ga, dha and ni all komal ; ma sometimes tivra
2. Probably in ancient times this raga was known by the name Todi.
3. All the alterable notes komal.
4. Modification of Kaphi by using komal ri and komal dha instead of suddha varieties.

S r g M P d n \bar{S}
C Db Eb F G Ab Bb C

5. The corresponding Carnatic raga = Hanumatodi.

1. Bhairavi (Hanumatodi), Sad, morning
2. Malkosh (Hindolam). Gay
3. Uttari Genakali
4. Bilaskhani Todi
5. Bhupali Todi

RAGAS

1. Bhairava

2. Malawa

3. Shri

4. Hindola

5. Deepak

6. Megh

RAGINIS

{	1. Gunakali	2. Malasri
	3. Patmanjari	4.
	5.	6.

{	1.	2.
	3.	4.
	5.	6.

{	1. Kedara	2. Kamode
	3.	4.
	5.	6.

{	1. Devagandhari	2.
	3.	4.
	5.	6.

{	1. Purvi	2. Dhanashree
	3.	4.
	5.	6.

{	1. Gandamalara	2.
	3.	4.
	5.	6.

The Thata System

1. It should proceed from the simplest (Udaval) to the most complicated (Bhairavi)
2. It should as far as possible incorporate the medieval Raga: Ragini system.
3. It should give representation to the big raga groups like Sarang, Malhar and Kanada.
4. In order to ~~achieve~~^{meet} the above-mentioned needs the following new thatas should be established:

- (a) Sarang *Brijdabam Sarang* ✓
- (b) Malhar ✓ *Gand Malhar* ✓
- (c) Kannadas *Barbari* ✓
- (d) Kedaras, and *Shri* ✓
- (e) Hindol. ✓

That will give us 15 thatas.

5. There are three Kafiis (shuddha, Patmavyari and Bangiya) but all are in the Kafi thata.
6. There are 13 Tadis, of which 11 are in the ~~Kafi~~ Todi thata and the others in Bhairavi thata.

The parent ragas of the Thatas:

1. Bilaval = Sampurana = Sampurana; V = dha; S'V = ga;
- 2.
3. Khamaj = Shadav = Sampurana; ga; ni;
4. Marwa = shadav = shadav; ti; dha;
5. Todi = Sampurana = sampurana; dha; ga;
6. Azavari = Odava = Sampurana; dha; ga;
7. Bhairava = Sampurana = Sampurana; dha; ti;
8. Kafi = sampurana = sampurana; Pa; Sa;
9. Purvi = sampurana = sampurana; ga; ni;
10. Bhairavi = Sampurana = Sampurana; $\frac{Ma}{dha}$; $\frac{Sa}{ga}$

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

THE KANNADAS (18)

1. Kannada Shudha - Kafi thata at present.
 2. Revati Kanada
 3. Husseini Kanada
 4. Suha Kanada
 5. Kovsiki Kanada
 6. Darbari Kanada
- } Kafi

THE KEDARAS (4) +

equivalent to Shri Raga and its Raginis

- | | | |
|------------------|---|-------------------------|
| 1. Kedar | - | at present Kalyan thata |
| 2. Shyam Kedar | - | Khamaj |
| 3. Maluha Kedar | } | Bilawal |
| 4. Jaidhar Kedar | | |
| 5. Kamode | | Kalyan |
| 6. Tilak Kamode | | Khamaj |
| 7. Shri | | Purvi |
| 8. Shri Tank | | Purvi |

THE HINDOLAS

1. Hindol

Kalyan

2. Saigh Hindol

Kalyan

3. Dergandhari

Asavari

4. Bhairavi

5. Bhairavi

6. Adara

7. Janyari

The BAHARS

1. Bahar
2. Malankas Bahar
3. Basant Bahar
4. Hindol Bahar
5. Bhairav Bahar
6. Bageshori Bahar
7. Adana Bahar
8. Jaunpuri Bahar

The Scales

3. In order to present a decline to the equal temperament of European music, the varying scales of Indian music must be stressed. This can be done by arranging the different shudha scales which have been in use.

1. The beginning is to be made with Bhup ✓
which is pentatonic and has a just major scale, and is in use throughout Asia, Africa, America, Scotland and Ireland.
2. The next to be used should be Gand Sarang, whose lower tetrachord is in the Greek ditonal and was the shudha scale of the Greeks.
3. As a contrast the Carnatic Seiyhoti (same as Greek Dorian) should be used. It is also pentatonic.
4. As a further contrast the Todi, which is again in the just major scale from dhaivat to dhaivat should be used.
5. Next the Kafi with both dhaivat and shadj tuning
6. The Mukharzi
7. ~~Kafi~~ The Bilaval ✓
8. ~~Kafi~~ the Bhairav. ✓
9. The Kanakangi to show the difference with Carnatic music

The SRUTIS

A purely melodic system like Hindusthani music must necessarily lay great emphasis on distinctions in scales. These distinctions become all the more important in the notes; neither 12, nor 18 but 22 notes should really be used.

As an illustration the Komal ga used in both Todi and Multani are not the same.

The shudha ri used in ~~Bhop~~ Bhop is very different from the shudha ri used in Kafi or Bilaval.

The main task is to write down pairs of ragas illustrating the sruti distinctions, so that all the srutis are known.

S. No	Name of Srauti			Svara	Vikrit	European	
1.	Tivra	mad		Shadja marga		C	
2.	Kumudwati	rshabh	mridu = ri b <u>shuddha</u> = ri b triseruti = ri † chaturuthi = ri †	Ri Shuddha	Ri Komal	D Flat	
3.	Manda						
4.	Chandobati					(Tivra ri?)	D
5.	Dayabati						
6.	Ranjani						
7.	Raktika	gandhara	triseruti = ga † Chaturuthi = ga b antara = ga †	Ga Shuddha	Ga Komal	E Flat	
8.	Randri						
9.	Krodhi					(Tivra Ga?)	E
10.	Bajrika						
11.	Parasarini	madhyam	shuddha = ma † pastimadhyam = ma †	Ma Shuddha		F	
12.	Priti						F sharp
13.	Manjari						Ma tivra
14.	Khiti			Pa		G	

S. No	Sruti			Svara	Vikrit	European	
14.	Kshiti			Pa		G	
15.	Rakta	dhairat	$\left\{ \begin{array}{l} \text{mridu} = \text{dha } b \\ \text{shudh} = \text{dha } b \\ \text{trisruti} = \text{dha } \dagger \\ \text{chaturruti} = \text{dha } \eta \end{array} \right.$		Dha Komal	} A flat	
16.	Sandipini						
17.	Alapini					Dha Shudha	} A
18.	Madanti						
19.	Rohini	—	—				
20.	Ramya	nishadh	$\left\{ \begin{array}{l} \text{trisruti} = \text{ni } \dagger \\ \text{chaturruti} = \text{ni } b \\ \text{Kakali} = \text{ni } \eta \end{array} \right.$		Ni Komal	} B flat	
21.	Ugra						Ni shudha
22.	Kshovini					(Terra ni?)	B

η = natural; scale of C major in just tuning;

\dagger = higher by $\frac{81}{80}$ (the difference between the major and minor tone);

\dagger = lower by $\frac{80}{81}$ than the corresponding natural;

\dagger = low flats, forming a descending string of just fifths from F;

b = other flats

b = soft.

1. Tirra

Shadja

2. Kumudwati

3. Manda

4. Chandovati

5. Dayabati

6. Ranjani

7. Raktika

8. Randri

9. Krodhi

10. Bajrika

11. Parasarini

12. Priti

13. Manjari

14. Khiti

15. Rakta

16. Sandipini

17. Alapini

18. Malavati

19. Rohini

20. Ranaya

21. Ugra

22. Kshorini

Primary Ragas

1. Bilawal ✓
2. Kalyan ✓
3. Khamaj ✓
4. Marwa ✓
5. Todi ✓
6. Asavari ✓
7. Bhairav ✓
8. Kafi ✓
9. Sarang ✓
10. Malhar ✓
11. Purvi ✓
12. Bhairavi ✓
13. Kanada ✓
14. Shri ✓
15. Hindol ✓
16. Bhup ✓
17. Gand Sarang ✓
18. Mukhari ✓
19. Kanakangi (C) ✓
20. Multani ✓

21. Senjoti (C) ✓

of these 1, 5, 7, 8, 16, 17, 18 and 19 illustrate distinctions of scale; 1 and 16 and 19 and 20 give examples of relationship between srutis and svaras.

Some Popular Derivative Ragas

- | | |
|----------------|----------------|
| 1. Yamen ✓ | 22. Malkosh |
| 2. Bhupali ✓ | 23. Nilambari |
| 3. Hanvir ✓ | 24. Mand |
| 4. Kedar | 25. Durga |
| 5. Kamode | 26. Ramkali |
| 6. Shankara | 27. Maru Bihag |
| 7. Behag | 28. Tilang |
| 8. Desh | 29. Bibhas |
| 9. Jhinphoti | 30. Barwa |
| 10. Jaipavanti | 31. Lalit |
| 11. Jogiā | |
| 12. Gouri | |
| 13. Sohani | |
| 14. Basant | |
| 15. Bageshwari | |
| 16. Bhimpalasi | |
| 17. Pilu | |
| 18. Bahar | |
| 19. Adana | |
| 20. Jaunpuri | |
| 21. Darbari | |

Some Ragas which illustrate
distinctions of Senti

1. Vasant, Sohni

2. Bhairav ✓

3. Todi, Purvi, Bhup

4. Bilaval, Kafi,

5. Todi ✓

6. Multani, Kafi ✓

7. Yamen, Bilaval ✓

8. Bhupali ✓

9. Bageshri

10. Jogia

11. Yamen ✓

12. Hindol ✓

Atikomal Ri

Komal Ri

Madhya Ri

Sudoha Ri

Atikomal Ga

Komal Ga

Sudoha Ga

Tivra Ga

Sudoha Ma

Ekacluti Ma

Tivra Ma

Tivratara Ma

13. Madhnavat Sarang

14. Bhairav

15. Khamaj

16. Kalyan

17. Bhimpalasi

18. Kafi

19. Bilaval

20.

Atikomal Dha

Komal Dha

Tresuti Dha

Suddha Dha

Atikomal Ni

Komal Ni

Suddha Ni

Tivra Ni

Historical Scales

1. Vedic represented in Southern Saman chants - Abhogi (e) pentatonic
2. Sarangdeva (1210 - 1247) Mukhari or Kanakangi
(similar to European minor mode - all the vikrits sharps of the suddha scale - most likely developed from the ancient Ga = grama. ancient Greek chromatic scale.)
3. Lochnakavi (15th cent) -
4. Punderik (17th cent) - Mukhari or Kanakangi, because of his Southern origin
5. Ahobala (18th cent) -
6. Md. Rezza (19th cent) - Bilaval, ~~not~~ European major scale - probably developed from Sa = grama.

Time

1. Sandhiprakas - 4-7 am. and P.m.
2. After Sandhiprakas 7-10 am and P.m.
3. Before sandhiprakas 10-4 am and P.m.

1 = Ragas having ri komal and ga tivra - Bhairava, Purvi and Marwa groups.

2. Ri, dha and Ga Sudha - Bilaval, Kalyani and Khamaj groups.

3. Ga komal and Mi komal - ~~Kafi~~ Kafi, Bhairavi and Asavari groups.

A. Purva ragas (between noon and midnight) ^{var}ansa in the first tetrachord.

B. Uttara ragas (between midnight and noon) ansa in the second tetrachord

Ma tivra = Sandhiprakas or after sandhiprakas, absent from morning

M (uttara) unless attended by a dominant komal ma. Exceptions.

Evening ragas do not omit Ga and Mi altogether

Morning ragas do not omit Ri and dha

Morning Ragas : Purvanga generally;
Ri and Sha not omitted;
Ma tivra absent unless attended by
a dominant Komal ma.

Evening Ragas : Uttaranga generally;
Ga and Ni not omitted;
Ma tivra present frequently.

Purvanga (ansa in first tetrachord)
between noon and midnight

1. Ga and Ni not omitted (Evening)
2. Ga and Ni omitted
3. Ri and Dha not omitted (Morning)
4. Ri and Dha omitted

1. Evening Purvangas i.e. not omitting Ga and Ni:

(a) Pre = Sandhiprakasha i.e. having Ri, Dha and Ga suddha; no Ma turra
12-4 p.m.

(b) Sandhiprakash i.e. using Ri komal and Ga turra
4-7 p.m.

(c) Post = Sandhiprakash i.e. Ga and Ni Komal
7-10 p.m.

(d) Pure Evening Purvangas i.e. omitting Ri and Dha

(e) outside these four categories:

1. Yemen
2. Khamaj

2. Morning Purvangaos i.e. not omitting Ri and Dha :

(a) Pre-Sandhiprakash i.e. having Ri, Dha and Ga suddha; no Ma Tiora
12-4 am.

(b) Sandhiprakash i.e. having Ri Komal + Ga Tiora
4-7 am.

(c) Post-Sandhiprakash i.e. Ga and Ni Komal
7-10 am.

(d) Pure Morning Purvangaos i.e. omitting Ga and Ni.

Uttaranga (ansa in 2nd tetrachord)
between midnight and noon

1. Ri and Dha not omitted (Morning)
2. Ri and Dha omitted
3. Ga and Ni not omitted
4. Ga and Ni omitted

Morning Uttarangas i.e. not omitting Ri and Dha

- (a) Pre: Sandhiprakash - Ri, Dha + Ga Siddha, no Ma tivra
12-4 am. 1. Bilaval
- (b) Bandhiprakash - Ri Komal + Ga tivra
4-7 am.
- (c) Post: Sandhiprakash - Ga Komal + Ni Komal
7-10 am.
- (d) Pure Morning Uttarangas, i.e. omitting Ga and Ni

Evening Uttarangas i.e. not omitting Ga and Ni

(a) Pre-Sandhiprakash - Ri, Sha & Ga Suddha, no Ma tivra
12-4 p.m.

(b) Sandhiprakash - Ri Komal & Ga tivra
4-7 p.m.

(c) Post-Sandhiprakash - Ga Komal + Ni Komal
7-10 p.m.

(d) Pure Evening Uttarangas i.e. omitting Ri and Sha

Evening Purwargas, having ga and ni

1. Atikomel Ga and Atikomel Ni

2. Atikomel Ga and Komal Ni

3. Atikomel Ga and Suddha Ni

4. Atikomel Ga and Tivra Ni

5. Komal Ga and Atikomel Ni

6. Komal Ga and Komal Ni

7. Komal Ga and Suddha Ni

8. Komal Ga and Tivra Ni

9. Suddha Ga and Atikomel Ni

10. Suddha Ga and Komal Ni

11. Suddha Ga and Suddha Ni

12. Suddha Ga and Tivra Ni

13. Tivra Ga and Atikomel Ni

14. Tivra Ga and Komal Ni

15. Tivra Ga and Suddha Ni

16. Tivra Ga and Tivra Ni

Morning Uttarangas having Ri and Sha

1. Atikomal Ri and Atikomal Sha
2. Atikomal Ri and Komal Sha
3. Atikomal Ri and Trisaruti Sha
4. Atikomal Ri and Suddha Sha

-
5. Komal Ri and Atikomal Sha
 6. Komal Ri and Komal Sha
 7. Komal Ri and Trisaruti Sha
 8. Komal Ri and Suddha Sha

-
9. Madhya Ri and Atikomal Sha
 10. Madhya Ri and Komal Sha
 11. Madhya Ri and Trisaruti Sha
 12. Madhya Ri and Suddha Sha

-
13. Suddha Ri and Atikomal Sha
 14. Suddha Ri and Komal Sha
 15. Suddha Ri and Trisaruti Sha
 16. Suddha Ri and Suddha Sha

The Scales

The fundamentally consonant are 1 & 2.

1. C D E F G A # B \textcircled{C} (by admission of A# in place of A, to the audible or major consonances of the drone. Intervals of *just* a just Fifth).
240, 270, 300, 320, 360, 405, 450, 480
2. C D^b E b F G A # B b \textcircled{C} - (from septimal intervals)
3. C D E F G A B b b \textcircled{C} } Relation of a Fourth
240, 270, 300, 320, 360, 400, $426\frac{2}{3}$, 480
4. C D E b F G A # B b \textcircled{C} } Relation of a Fifth
240, 270, 288, 320, 360, 405, 432, 480
5. C D E b F G A b B b b \textcircled{C} } Relation of a Fourth
240, 270, 288, 300, 360, 384, $426\frac{2}{3}$, 480
6. C D b b E b F G A b B \textcircled{C} } Relation of a fifth
240, 256, 300, 320, 360, 384, 450, 480

6. C D b b E F G A b B $\text{\textcircled{C}}$ } Fifth
240, 256, 300, 320, 360, 384, 450, 480

7. C D b b E b F G A b B $\text{\textcircled{C}}$ } Fifth
240, 256, 288, 320, 360, 384, 432, 480

8. C D E F F# A B $\text{\textcircled{C}}$
240, 256, 300, 320, $341\frac{1}{3}$, 400, $453\frac{1}{9}$, 480

Nata Group Scale

b S, R, G, M, P, Dh⁻, N, \bar{S} - relation of a fifth
240, 270, 300, 320, 360, 405, 450, 480
C D E F G A# B ©

Madhyamadi Scale

S, R, G, M, P, Dh⁻, n⁻, \bar{S} - relation of a fourth
240, 270, 300, 320, 360, 400, $426\frac{2}{3}$, 480
C, D E F G A B bb ©

These two scales together contribute the scales for ragas of the Khamaj and Bilaval thatas. Scales derived by combining two such scales are very similar to those of folk music. Bihag uses ~~to~~ the Nata scale with F sharp in addition. The Kalyan group employs the Madhyamadi scale with F# and B instead of F and Bbb. Kedar employs the Madhyamadi scales with F# and B in addition.

Kafi Scale

S, R, g, M, P, Dh, n, \bar{S} | C D E b F G A # B b \textcircled{C}
240, 270, 288, 320, 360, 405, 432
450

The Nata and Kafi scales combined give the scale for the Malhar group.

~~Asavari~~ Scale

Asavari Scale

S, R, g, M, P, dh, n, \bar{S} | C D E b F G A b B b \textcircled{C}
240, 270, 288, 320, 360, 384, 426 $\frac{2}{3}$, 450

Also used by the Kanda Kanada ragas

Bhairava Scale

S, T, G, M, P, dh, N, \bar{S} | C D b b E b F G A b B ©
240, 256, 300, 320, 360, 384, 450, 480

The Purvi uses this scale ~~but~~ with F# in addition.

Bhairavi Scale

S, T, g, M, P, dh, n, \bar{S} | C D b b E b F G A b B b C
240, 256, 288, 320, 360, 384, 432, 480

Todi uses this scale with F# and B instead of F and b b.

Marwa Scale

$S, T, G, M, m^+, Dh^-, N^+, S^-$ | $CDEFF\#A B \textcircled{C}$
 $240, 256, 300, 320, 341\frac{1}{3}, 400, 453\frac{1}{3}, 480$

Lakhta, Purija and Hindal also use this scale.

————— 1660
 Surocha scale of Lochana Pawrit and Hrodya :

Kafi	{	Sa	—	36"	—	240 vib
	Ri	—	32	—	270 "	
	Ga	—	30	—	288 "	
	Ma	—	27	—	320 "	
	Pa	—	24	—	360 "	
	Dha	—	21½	—	405 "	
	Ni	—	20	—	432 "	
	Sa	—	18	—	480 "	

	Letter 17 th Cent Ashotala's
Sa	240
K.ri	254 $\frac{12}{7}$
Ri	270
Ga	288
TuraGa	301 $\frac{17}{43}$
Ma	320
Mat.	337½
Pa	360
K. the	381 $\frac{3}{7}$
Dha	405 $\frac{1}{7}$
Ni	432
Tirma Ni	301 $\frac{17}{43} \times \frac{3}{2}$
	= 452 $\frac{4}{3}$
Sa	480

The primer of Indian music should contain about 60 ragas.

A. The 7 scientific scales:

1. Nata,
2. Madhamadi (Sarang, of Kalidasa's song),
3. Kafi
4. Asavari
5. Bhairava
6. Bhairavi, and
7. Marwa,

B. The ~~five~~ ^{five} thatas not covered by the above:

8. Kalyan
9. Bilaval
10. Khamaj
11. Purvi, and
12. Todi

C. 5 Ragas which illustrate the historical scales:

13. Bhupali
14. Gand Sarang
15. Carnatic Kanakangi (or Mukhari)
16. Carnatic Abhogi
17. Carnatic Sainjhoti

D. 4 Ragas which lead groups of ragas and have reference to the seven scientific scales:

18. Bihag
19. Kedar
20. Kanada Darbari
21. Mijaki Malhar

E. 8 Ragas which illustrate the use of srutis and thus help to fix the notes; the earlier ragas will also be used for this purpose:

22. Vasant
23. Multani
24. Bageshri
25. Jogia
26. Hindol
27. Bhimpalasi
28. Madhmawat Sarang
- 29.
- 30.

F. ~~Add~~ 30 Additional ragas, which more or less cover the entire range of popular ragas, illustrate the scales, the thata divisions, the use of srutis and the different ragas.

31. Shri
32. Lalita
33. Puriya
34. Tilang
35. Hamir
36. Shankra
37. Ginghori
38. Sohni
39. Gouri
40. Jaijayanti
41. Pilu
42. Bahar
43. Adana
44. Malkosh
45. Nilambari
46. Mand
47. Durga
48. Ramkali
49. Maru Bihag
50. Barwa
51. Desh
52. Chayanat
53. Sorath

54. Pahari
55. Gara
56. Kalingda
57. Brindabani Surang
58. Nayaki Malhar
59. Jaunpuri
60. ~~Yemen~~ Kalyan Kamode
61. Miyaki Todi
62. Jeevanpuri
63. Dhani

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G. Ragas illustrating combinations:

1. Yamen Kalyan
2. Tilak Kamode

H. Classification of ^{all} ragas, by tharas, scale, consonants,
time, olava, hadava, sampurna, sankeema, cheyalagatas,
etc. - list of all extant ragas.

I. The graces of vocal music with reference to those of
some important instruments.

No	Sruti	Current Western name	Clements	Illustrative Raga	Sign	Vibrations	Other cents
1	Tivra	Shadja Ma			S		
2.	Kumudwati	Ati-Komal Ri		Vasant, Sohni	T ⁻		} I D
3.	Manda	Komal Ri		Bhairav	T		
4.	Chandobati	Madhya Ri		Todi, Purvi	R ⁻		
5.	Dayabati	Sudha Ri		Bilawal	R		I
6.	Ranjani	Ati-Komal Ga		Todi	g ⁻		E
7.	Raktika	Komal Ga		Kafi, Multani	g		} E
8.	Randri	Sudha Ga		Yemen Bhimpali, Bilawal	G		
9.	Krodhi	Tivra Ga		Bhupali	G ⁺		E
10.	Bajrika	Sudha Ma		Bageshri	M		F
11.	Parasani	Ekasuti Ma		Jogia	M ⁺		F
12.	Priti	Tivra Ma		Yemen	m		F
13.	Manjari	Tivratara Ma		Hindol	m ⁺		F
14.	Kshiti	Pa			P		G
15.	Rakta	Ati-Komal Dha		Mishmarat Sany	d ⁻		} A A
16.	Sandipini	Komal Dha		Bhairav	d		
17.	Alapini	Triseruti Dha		Khamaj	D ⁻		} A
18.	Madanti	Sudha Dha		Kalyan	D		
19.	Rohini	Ati-Komal Ni		Bhimpalasi	n ⁻		B
20.	Ramya	Komal Ni		Kafi	n		} B
21.	Ugra	Sudha Ni		Bilawal	N		
22.	Kshovini	Tivra Ni			N ⁺		B
		Shadja Tara			S		C

Brahms	Cyclic cents	Western note	Vibrations per sec	Cyclic cents	Musical Raga		
		C	240	0		Shadja	1
		} Db	252.8	90	Gaula	Ekavanti Ri	2
			256	112	Mayamatarigaula	Davaruti Ri	3
			266.6	182	Bhairavi	Trivanti Ri Chaturvanti Ri	4
		D	270	204	Sankarabharana	Chaturvanti Ri	5
		E b	284.4	294	Bhairavi	Suddha Ga	6
		} E b	288	316	Kankarapriya Haripriya	Sekharana Ga	7
			300	386	Sankarabharana Kumbhakarani	Antara Ga	8
		E	303.75	408	Svaganadhari Bhagada	Chyuta Ga	9
		F	320	498	Kumbhakarani Varahi	Suddha Ma	10
		F sharp	324	520	Bhagada	Tirra Ma	11
		F #	337.5	590	Kalyani	Prati Ma	12
		F ##	341.3	610	Varahi	Chyuta Ma	13
		G	360	702		Pa	14
		} A b	379	792	Saveri	Ekavanti Dha	15
			A b	384	814	M'gaula	Dv. Dha
		} A	400	884	Kambhoji	Tr. Dha	17
			A	405	906	Kalyani	Ch. Dha
		B b	426.6	996	Bhairavi	Su. Ni	19
		} B b	432	1018	K'priya	Kacchiki Ni	20
			B b	450	1088	S'gharana	Kakali Ni
		B	455.6	1110	Kurauji	Chyuta Ni	22
		C #	480	1200		Tara Shadja	

Notes and Emotions .

Sa and ti = appropriate to expressing the emotions of
heroism, wonder and resentment.

Dha = emotions of disgust and terror.

ga and ni = sorrow

ma and pa = humour and love.

Ragas and Emotions

1. Todi - emotional symbol of the feeling of the countryside; pastoral; surrender of animal life to the magic and enchantment of the beauty of nature.
2. Lalit - ~~the~~ break of night and day;
 - (a) separation of lovers
 - (b) return of an offending lover after a night with a lover;
 - (c) satiety of love - acceptance of dawn as termination of love.
3. Vibhas - pangs of separation at morn; unsatisfied
4. Ramkali - melody of resentment; the emotion of an offended lady vainly assuaged by her lover.
5. Vasanta - dancing rhythm at the advent of spring; joy of life
6. Megha - sonorous longing for love = union; exuberance of desire and opportunity for enjoyment at rain's lamentation of a heroine cut off from her lover
7. Kanoda - by cruel fate
8. Bhupali - joy of meeting lover at eventide
9. Kamoda = rapture of love

10. Bheirani - purity of love; passion purified by renunciation.
devotion.
11. Purani - lamentation of nature for the parting day
12. Asavani - melancholy pleading of a grievance for redress.
13. Madhumadhavi - peace of love and contentment.
14. Nata - the heroic and martial in man.

Ragas and the Seasons.

1. Hindola - Spring
2. Vasanta - "
3. Bhairava - Asvin (Autumn)
4. Sri - harvest - early winter
5. Deepak - Spring

acc. to Sauesvara

1. Sri - winter
2. Vasant - Spring
3. Bhairava - Summer
4. Panchama or Malkosh - autumn
5. megh - rains
6. Nata Narayana - early winter.

Lochana Panait's Stribis

1. Tivra - Tivra Nishada
2. Kumudvati - Tivra Nishada Kakali
3. Manda - Tivratama Nishada
4. Chandovati - Sudoha Sadja
5. Dayavati - —
6. Ranjani - Komala Rishabha
7. Raktika - Sudoha Rishabha
8. Rowdri - —
9. Krodhi - Sudoha Gandhara
10. Vajrika - Tivra Gandhara
11. ~~Prasavini~~ - Tivratama Gandhara
12. Preethi - Tivratama Gandhara
13. Marjani - Sudoha madhyam or Atitivratama Gandhara
14. Kohiti - —
15. Rakta - Tivratara madhyam
16. Sandipini - Sudoha Pauchama
17. Alapini - —
18. Madanti - —
19. Rohini - Sudoha Dhairvata, Komal Dhairvata
20. Ranuja - —
21. Ugra - —
22. Kohovni - Sudoha Nishada

- Hindusthani
1. Bhairava
 2. Yemen
 3. Bilaval
 4. Khamaj
 5. Purvi
 6. Marwa
 7. Kafi
 8. Asavari
 9. Bhairavi
 10. Todi
 11. Anandabhairava
 12. Jhingoti
 13. Nune
 14. Malkos
 15. Kahiqa
 16. Kalyan
 17. Durga
 18. Jogiya
 19. Lalit
 20. Sarang
 21. Gandhari

- Carnatic
- M ayamelavagowla
 - Santhakalyan, Kalyani
 - Dhira sankarabharana
 - Harikedaragowla or Harikambodi
 - Kaciramakriya or Kamavardhani
 - Gamakakriya or Gamasaranga
 - Sri or Karharapriya
 - Navarithigowla or Natabhairavi
 - Janithodi or Hanumathodi
 - Sairopanthuvarahi
 - Chakravakam
 - Harikambodi
 - Chalanata
 - Hindolam
 - Nadanamakriya
 - Kalyani
 - Suddha Saveri
 - Saveri
 - Suryakantham
 - Madhyamavati
 - Gandharva

22. Bageshri -

Sriranjani

23. Bhoop -

Mohanam

24. Tilang -

Nata

25. Bhimpalas -

Abheri

26. Pohupali -

Pohupali

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Arabic melodies

1. Rahavi
2. Husanai
3. Raet
4. Hajarj
5. Buzurg
6. Kochak
7. Irak
8. Nawab
9. Sefha
10. Ushashaq
11. Jangla
12. Busalik

1. Bhupali — all tones — no reinitones, no quarter tones tivra ga
2. Hamir → ~~tivra ma~~, Ekasruti ma
3. Kedar → ma is between tivratama gandhara + suddha ma ↑
4. Bageshri → ma is between Ekasruti ma, going down to suddha ma ↓
5. Beherg → madhya ri; ga touches tivra ga + comes down to suddha ga
 Ga is also slightly rising up + coming down.
6. Desh — tivrat Nija ascent; komal ri in descent.
7. Tilak Kamode → ga rises from tivra ri to suddha ga
8. Kalingra — atikomel ri, komal dha
9. Sri —
10. Sohni — atikomel ri; suddha ga rising from ri, ma is
 tivratara
11. Bageshri — ~~atikomel~~ atikomel Tivra ga, ^{going down to} ~~rising from~~ komal ga
 suddha dha but coming down from atikomel ri
12. Brindabani Sarang →
13. Bhimpalasri — komal ga comes down from suddha ga.
 suddha ma but lower by a sruti.
14. Pihu
15. Gaumpuri — suddha ri but higher by a sruti.

④ French toast.

Take a plateful of milk. Add sugar to the milk. Soak slices of bread in the sweetened milk. Then soak this same bread in a plateful of beaten eggs. Then fry this bread in ghee into a golden brown colour.

⑤ Plantains with Curds.

Cut ~~the~~ plantains into thin ~~one~~ circular slices. Cut ~~at~~ green chillies into small bits. Put these into the curds. Add a teaspoonful of sugar and salt to taste.

⑥ Tamarind Chutney.

Soak tamarind ~~it~~ in water for some time. Press out the ~~the~~ thick juice of the tamarind and throw out the pulp. ~~Go~~ Cut ~~the~~ jaggery into tiny bits & mix it thoroughly with the tamarind. Add a little salt. Chop onion finely. Cut chillies (green) & coriander leaves (~~at 2/11/12~~) into small

bits. Add the chopped onion, chillies
& coriander leaves to the tamarind
mixture. Take roasted groundnut
& pound it into bits and ~~not~~ mix
it thoroughly.

— x —

1. Salt.
2. Pepper.
3. Mustard.
4. Red chillie Powder.
5. Curry powder.
6. Grated copra.
7. Sugar.
8. Tea leaves.
9. Green chillies
10. $\frac{1}{2}$ Coriander leaves
 $\frac{1}{2}$ चीरान्ना
11. Turmeric Powder.
12. $\frac{1}{2}$ जीरा
13. $\frac{1}{2}$ राई

Take fresh lamb, roast it on a slow fire till it is brown - spread it in a shallow dish lined with ghee - push boiled lobsters into the lamb - take oysters (flavour it with curiarré paste), drill small holes in lobsters and drop the flavoured oysters - Make a paste of minced meat and ~~white~~ yolk of eggs, add baking powder to give it body - Lay a layer of this paste - turn the lamb = lobster concoction in it - Put another layer of this paste on top of the concoction. Scatter bacon chopped in bits, almonds, pistachio, currants on the paste top. Ground desiccated copra and ~~lay~~ lay it thick on top.

Turn the pie in a ~~at~~ deep vessel full of coconut milk, put copra, almond top dressing. Put the thing in a refrigerator for 24 hours; on a slow fire for 4 hours; in steam for 2 hours and back in refrigerator for 24 hours.

Take the cooked thing - serve in dishes lined with beteln leaves laid out with their

tips pointing outwards. Sprinkle rosewater for
fragrance.

A dash of potassium Cyanide to make
it slightly sour and the last dish.

Custard.

Beat 2 eggs together. Add milk
to it in such quantity so that a
mild yellow colour of ~~the egg~~ is
retained by the mixture. Add
sugar to taste. Keep the ~~vessel~~
vessel with this mixture in another
vessel half full of water.

Keep ~~the~~ the vessels on the fire till
the mixture becomes quite firm
but not hard.

Eat with bread.

Potato Fingers. ~~Make~~ Cut potatoes
in long fingers. Soak potatoes in a
little salt water. Remove the potatoes
from the water. Fry the potatoes in
ghee. Add pepper to taste

Bhatia Vegetable

Chop into fine bits - potatoes
~~green~~ french beans, onions. Take a
vessel ~~add~~ put ghee ⁱⁿ to it. Put ~~on~~ the
mixture of onions, french beans, potatoes
of green peas to it. ~~Adds~~ Cut chillies
and ~~कोरन्ड~~ ~~to it~~. Add a little
~~शिरा~~ and ~~रिंड~~. Add a pinch of
~~होस्टा~~ and a red chillie powder.
Add ~~o~~ salt to taste.

Cover the vessel & put it on
the ~~very~~ fire. Keep water on the
lid. Keep for about 20 minutes
till well steamed. Add hot water
from the lid to it. Mix thoroughly
& keep on the fire till ~~all~~ the
vegetables are well ~~at~~ cooked.

Bibliography

1. Hindusthani Sangit Padhati Kramik Pustak Mahka
by Pt. Y. N. Bhatkhande, 4 vols (both Marathi + Hindi)
2. Geeta Sutra Sar by K. D. Banerji (Bengali)
3. Maariful Nagmaht by Thakur Nawab Ali Khan (Urdu + Hindi)
4. Introduction To the Study of Indian Music, Longmans, London 1913, (English)
5. The Ragas of Hindustan, Poona, 1918 (English)
6. Sitar Marga by S. Bandopadhyaya (Hindi)
7. The Music of Hindustan By A. H. F. Strangways, Oxford, 1914 (English)

INDEX

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