Rasasastra & Bhaishajya Kalpana

I. Terms and periodical examinations

It is proposed to divide the 18 months of second Professional B.A.M.S. course into 3 terms as directed by D.A.M.E. The three terms with study leave and terminal examinations can be as follows,

Term 1 : Classes for 6 months, including examination & result
Term 2 : Classes for 6 months, including examination & result
Term 3 : Classes for 4 months including model examination & result.

Study leave + University Exam for 2 months

University Examination process 2 months
Total : 18 months

Scheme of Examination

Term I : Theory
Paper 1 : Rasa Sasthra - 50 marks. Duration - 2 hours.
Paper 2 : Bhaishajya Kalpana - 50 marks. Duration - 2 hours.

No viva and Practical Examinations.

Term II : Theory
Paper 1 : Rasa Sasthra - 50 marks. Duration - 2 hours.
Paper 2 : Bhaishajya Kalpana 50 marks. - Duration - 2 hours

Viva and Practicals : 50 marks.
Term III : Theory

Paper 1 : Rasa Sasthra 100 marks.

Duration - 3 hours.

Paper 2 : Bhaishajya Kalpana 100 marks. Duration - 3 hours.

Viva and Practicals : 200 marks.

Re-structure of Question paper.

The present system should be changed since it is not sufficient for assessing a student. So a blueprint of Question paper is recommended here with.

1. Short answer questions (2 marks each) – 10 = 20 marks.
2. Short answer questions (3 marks each) – 5 = 15 marks.
3. Illustrative questions (5 marks each) – 3 = 15 marks.

Total 50 marks.

Same pattern for both Part A and Part B.

Term – 1

Paper – I.

Rasa Sastram


2. Paribhasha prakaranam – Lavana panchakam, Madhurathrayam, Amla vargam, Panchamritham, Pancghagavyam, Ksheera thrayam, Rasa pankam, Rasa pishty, Bhavana, Dalanam, Aavaapam, Nirvaapam, Sodhana, Maranam, Mritha loham, Apunarbhavam, Nirutham, Varitharam, Pancha mrithika, Rasa dravya vargeekaranam, Dravaka ganam etc.

3. Yanrtra – Dola, Damaru, Sthalee, Palika, Swedani, Puta, Vidyadhara,
Ghada, Pathana, Bhoodhara, Pathala, Khalwa, Thula, Ulookhala, Kachapa Yantharanam parichayam.


Paper II
Bhaishajya Kalpana.


2. Aadharabhootha sidhantham of Bhaishajya Kalpana – Saveeryathavadhi of different Kalpanas, Oushadha kalpana samrakshana vidhi, Aadhunika mathanusarena jnanam, upayogam –


– Shaandavam – Siktham – Vesavaaram – Thakram – Udaschit –
Madhitham – Katwaram – Dadhi nirmanam, Vidhi, prayoga vidhi –
Mathra – prayoga kalam – Aamayika prayogam.

5. Detailed study of Oushadha kalpa parichayam – nirmana vidhi –
mathra – Aamayika prayogam – Anupanam. Swarasam – Kalkam
– Sritham _ Seetham – Phandam – Shadanga paaneeyam –
Ushnodakam – Thandulodakam – Laksharasam – Mamsa rasam –
Mandham – Oushadha sidha paneeyam – Oushadha yoosham –
Arkam – Paanakam – Saarkaram – Pramathya

Term 2.
Paper I.

Rasa Sasthram

1. Rasam – nirukthi, paryayam, prapthi sthanam, yougika swaroopam
– Naisargika – Kanchuka doshas – Grahya – agrahya swaroopam –
Sodhanam – Ashta samskaras – Gathis – Bandha – Hingulotha
paradam. Parada samanya sodhanam – Kajjali – Parpadi (Rasa –
Thamra – Vyoma – Swarna – Vijaya – Panchamritha parpadi.)
Rasa pushpam, Rasa karpooram, Mugdha rasam, Rasa sindooram,
Makaradwajam, Sidha makaradhwajam – Kalpananirmana reethi –
mathra – guna – Aamayika prayoga

2. Maha rasadi – Maharasam, Uparasam, Sadharana rasam – Sankhya,
swaroopam, prapthi sthanam, Sodhana, maranam mathra, gunam,
aamayika prayogam. Swarna vangam, Rasa manikyam, Swetha
parpadi – Nirmanam, mathra, gunam, aamayika prayogam.

Paper II

Bhaishajya kalpana

1. Sidha sneha paka vidhi, sneha bheda, Sneha kalpanas, Moorchana


Term 3.

Paper I

Rasa Sasthram

prayogam, Bhoonaga – Mayoorapicha satwapathanam.


3. Vishopavisha swaroopam, Gunam Samanya sodhanam, Aamayika prayoga jnanam, upayogajnanam

4. Rasa saala nirmanam according to the Oushadhee prasadhana niyamam, thasyanthargatha oushadhee nirmana sambandha niyamopa Niyama jnanam. (Drugs and cosmetic act. Including GMP).

Paper II

Bhaishajya kalpana.


4. Mrithyunjaya rasam, Aananda bhairava rasam, Thribhuvana keerthi
rasam, Hinguleswara rasam, Vasanthamalathee rasam, Vasantha ksumakara rasam, Hridayarnava rasam, Swasakudara rasam, Raja mriganga rasam – Hemagarbha pottalee rasam, Putapakwa vishamajwarantha louham, Sarva brahat vatha chinthamanee rasam, Jalodaradi rasam, Ichabhedee rasam, Rama bana rasam, Punarnava mandooram, Saphamritha louham, Navayasa louham, Kumara kalyana rasam, Garbhapala rasam, Prathapalenkeswara rasam, Kasthoori bhairava rasam, Lakshme vilasa rasam.

### Practicals – Term I - Bhaishajyakalpana

<table>
<thead>
<tr>
<th>Swarasam</th>
<th>Ardraka, Thulasipatra</th>
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<tbody>
<tr>
<td>Kalkam</td>
<td>Nimba, Lausna</td>
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<td>Srutham</td>
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|            | Sasyaka Sodhanam      | 16
Uparasa - Gandhaka Sodhanam
   Gairaka Sodhanam
   Kaseesa Sodhanam
   Harithala Sodhanam
   Anjana Sodhanam
   Kaseesa Maranam
   Kamshi Sodhanam
   Rasamanikyanirmanam 12

II Term

Bhaishajyakalpana

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Rasasasthram

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<td>Hingulothaparadam</td>
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<tr>
<td>Varatika sodhanam</td>
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Godanthi sodhanam
Pravala sodhanam
Sankhamaranam
Varatikamaranam
Godanthimaranam
Pravalapishti

Dhatu - Loha samanya Sodhanam
Loha Visesha – Bhanupakam – Sthalipakam
Sodhanam Vanga Visesha Sodhanam
Rasa - Rasa samanya Sodhanam
Rasakajjali
Mugdharasa
Parpati - Rasa Parpati
Swetha Parpati

III Term

Bhaishajyakalpana

Sandhana Kalpana - Draksharishta
Sudhi - Gugulu, Hingu, Dhathura, Vatsanabhi
Vasthi Yojanakrama - Prayogam – Madhu thailika vasthi
Guggulu Kalpam - Triphala guggul
Lavana Kalpam - Naleekera Lavana
Arkalavana
Mashi Kalpam - Triphaladi Mashi
Malahara Kalpana - Sarjarasa Malahara
Lepam - Doshaghna Lepam
Varthi - Phala varthi
Dhoopam - Dasanga Dhoopam

Rasasasthram

Khalvayarasanam - Hinguleswara rasam
                    Ananda Bhairavarasam
Lauhakalpam - Navayasa Lauham
Druthi - Gandhaka Druthi
Rasayanika
Pareeksha - Rasam – Gandhakam – Loham – Thamram –
               Namgam –
               Vangam – Sudhavargam

* Clinical evaluation of Prepared rasadrugs in Hospital Patients

*Knowledge of encapsulating the mixtures, rasoushadas and churnas in capsules

Model Question Paper

**Rasathanthra Paper I**

Part A

1. Define Rasa
2. What you mean by Rasapanaka?
3. Name Panchamrithika
4. What is Amrutheekaranam
5. Define puta, with modern equivalent
6. Give an account of the necessity of Sodhana procedure in
Rasasthra

7. Write the importance of Rasachikitsa?

8. Write paribhasha of madhura thraya

9. Differentiate 'Avapa and Narvapa’

10. Write the upadhana of Moosha

11. Write short notes on 10x 2=20

1. Bhavana

2. Marana

3. Vidhyadharyantram

4. Angarakoshti

5. Kapothaputam 5x3=15

12. Write briefly on Bhasma pareeksha

13. With the help of diagram, describe gosthaneemoosha

14. Discuss the evolution of Rasasasthra 3x5=15

Part B

15. Write the individual drugs of Maharasa with modern names

16. Write the Synonyms of parada

17. Name Ashta samskara of parada

18. Name poothilohas, why they are called so?

19. Write the Samanya sodhana of lohas (metals)

20. Write copper containing minerals used in Rasasastra?

21. Write 5 sudha varga dravya

22. Write samanya sodhana of sadharna rasa

23. Name the varieties of Harithala
24. What you mean by Sooryathapi silajathu?  
25. Write Dhanyaabhramanirmana and its importance in abhrakamarana  
26. Differentiate between makshika and vimala  
27. Write sodhana procedure of a. Kupilu b. Vatsanabhi  
28. Write lakshanas of Pinaka abhraka and vajraabhraka  
29. Write the names of navaratnas with their samanya sodhana  

3 x 5 = 15

30. Write the varieties garika and its properties  
31. Describe the method of preparation of siddha makaradhwaja and makaradhwaja  
32. Name Rasabandhas and describe potabandha.  

5x3=15

**Paper II**

**Part A**

1. Define Bhaishajya?  
2. What is Mana? What is the purpose of Manaparibhasha?  
3. Name the group of drugs which are to be used fresh in all preparations?  
4. Write the difference between choorna and kalka  
5. Name 2 Bhashajya kalpanas which are having indefinite shelf life?  
6. What is the importance of ksheerapaka vidhi?  
7. Define phanitha?  
8. Describe 2 machineries used in the preparation of powder?  
9. What is the role of vasana samskara? Give an example?
10. Write panaka with one example 10x2=20
11. Write the methods of preparations of laksha rasa
12. Differentiate between kwatha and pramathy
13. Write a brief account on Arka kalpana
14. Give an account of Siddha Avaleha lakshana
15. Write the mode of preparation of guloochi satwa with dose and uses? 3x5=15
16. Write detailed description of
   1. Kashaya yoni
   2. Guggulu kalpam
   3. Kwatha vidhi 5x3=15

**Part B**
17. What is logic behind thaila moorchana?
18. Write the ingredients used for sneha kalpana according to Acharya sounaka?
19. What are the advantages and the disadvantages of gutika kalpana?
20. What is posology?
21. Write the uses of Vilepi?
22. Malahara kalpana is first introduced by which Acharya and write its role in modern pharmaceutics?
23. Write the types of Nasya kalpana?
24. Differentiate between Gandoosha and kabala
25. Write the Varieties of Thakra?
26. What is Varuni 10x2=20
27. Write short notes on
a. Snehakalpana
b. Sura
c. Mamsarasa
d. Vasthi
e. Netrakalpa

5x3=15

28. Discuss in detail Siddha sandhana lakshanas?
29. Write the mode of preparation of Draksharishta with uses and dosage
30. Give an account of Varthi kalpana and co-relate it with that in modern pharmaceuticals?

3 x 5 = 15

Text Books of Rasasastra

1. Rasamrtam Dr. Damodar Joshi (K)
2. Rasa Jala nidhi (1-5 Parts) English (cod)
3. Ayurvediya Rasa Sastra - Dr Siddhinandan Misra (JA)
4. Rasendra sara samgraha - Indra deva Tripathi (JA)
5. Rasamanjari (siddhiprada) Hindi vyakhya -Siddhinandan Misra (JA)
6. Rasa Prakasa Sudhakara (Hindi vyakhya) - Siddhinandan Misra (JA)
7. Rasendra cudamani - Siddhinandan Mistra (JA)
8. Rasa paddhati - Siddhinandan Misra (JA)
9. Rasa kamadhenu prathamopakarana pada tika caturtga Cikkitsa pada (1-3 Parts)
   Hindi – Gulraj Sharma (JA)
10. Rasendra cintamani - Siddhinandan Misra (JA)
11. Prarambhika rasa sastra - Siddhinandan Misra (JA)
12. Ayurvediya Rasyana Sara (IIIustrated)-Dr.(Smt. ) Shailaja Srivastava
    (JA)
13. Rasa Cintamani - Siddhinandan Misra (JA)
14. Rasendramangalam of Nagarjuna - H.S.Sharma (JA)
15. Brhad Rasaraja sundara - Datta Ram Choubey (JA)
16. Abhinava Navjeevanam - Siddhi Nandan Mishra (JA)
17. Kasturi - Dr. chandrashekhar Yadav & Dr. Chhotelal Yadav (JA)
18. Abhidhanaratnamala - Priyavrat Sharma (JA)
19. Rasahrdaya tantra - Daulat Rama Sharma. (cod)
20. Ayurveda prakasa - Gularaja Sharma Misra (V)
21. Rasa ratnakara rddhi khanda vadi khanda - Swaminath (c0d)
22. Rasa darpana - Pro. Bhajandas Swami (1-2 parts) (N)
23. Rasa bindu - Sanjay Sharma (N)
24. Rasayana tantra - Pakshadhar Jha (V)
25. Rasa cikitsa - Prabhakar Chattopadhyay (v)
26. Rasaratnasmucchya - Dr. Indradev Tripathi (K)
27. Bharatiya rasa sastra - Vishvanath Diwivedi (B)
28. Ayurveda Darsana OR the reference of Caraka, Susruta and Vagabhata S.V.Shukla (JA)
29. Short Notes of Charka Samhita - Dr. S.V.Shukla (JA)
30. Short Notes of Susruta Samhita - Dr. S.V.Shukla (JA)
31. Short Notes of Astanga Samgraha - (Vol. 1-2)-Dr. S.V.Shukla (JA)

**Text Books of Bhaisajya Kalpana**

1. Sarangadhara Samhita - Text with English Translation - Dr. K.R. Srikanth Murthy (JA)
2. Sarangadhara Samhita - (Hindi ‘Jivan’ vyakhya) Shailaja Shrivastava (JA)
3. Sarangadhara Samhita - Adhamalla (JA)
4. Sarangadhara Samhita - by Acharya-Sarngadhara-(Original Text) edited and introduction Dr. Siddhinandan Mishra (JA)
5. Sarngadhara Samhita - Damodra Sunu Sarngadhar Revised by Acharya Narayanaram (Pocket size) (JA)
6. Salya tantra samucchya Collected – Vamdeva Mishra. Introduction Dr. Damodra Sharma Gaud (JA)
7. Bhaisajya Kalpana vijnana - Avadh Bihari Agnihotri (V)
8. Bhaisajya ratnavali - Ambikadatta Shastra (K)
9. Vaidyaka Paribhasa pradipa (Vidyotini Hindi) – Indradeva Tripathi (JA)
10. Asavaristha vijnana - Paksadhar Jha (v)
11. Paka darpana - Indradev Tripathi (K)
12. Ayurveda Darsana OR The reference of Caraka, Susruta and Vagabhata-S.V. Shukla (JA)
13. Short Notes of Charaka Samhita - Dr.S.V. Shukla (JA)
14. Short Notes of Susrutha Samhita - Dr. S.V. Shukla (JA)
15. Short Notes of Ashtanga Samgraha (Vol – 1-2) - Dr. S.V. Shukla (JA)

**Distribution of Practical marks**

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<tr>
<th>Practical mark</th>
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<tbody>
<tr>
<td>1. Sodhama, Maraina, and Preparation of Medicines</td>
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<tr>
<td>2. identification of drugs</td>
<td>20</td>
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<td>3. Viva – Voce</td>
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<tr>
<td>4. Practical work record</td>
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<tr>
<td>5. Preparation if medicines</td>
<td>30</td>
</tr>
<tr>
<td>6. (Togamanakeekaranams)</td>
<td>20</td>
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</table>
7. Identification of Instruments and machines 20
8. Daily work 10

Total 200

Main Text Books

Rasasastram
1. Rasaretnasamuchayam
2. Rasatharangini

Bhaishajya kalapana
3. Sarangadhara samhita
4. Relevant chapters from
5. Ashtanga hrudayam, charaka samhita