

# RASASHASHTRA PAPER 1 SECTION - A

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## POINT 1

**Definition and etymology of Rasa, History of Rasashastra, Importance of Rasaushadhi, Concept of Rasa-Rasayana, Concept of Raseshwar Darshana. Concept of Rasashala and Rasamandap.**

## 10 MARKS:

1. Describe the Definition and etymology of Rasa and its importance.
2. Explain the History of Rasashastra and contribution of 2 major important classics of Rasashashtra.
3. Discuss the Importance of Rasaushadhi in modern era.
4. Discuss the importance of rasaushadhis with special reference to heavy metals.
5. Explain the Concept of Rasa-Rasayana.
6. Explain the Concept of Raseshwar Darshana.
7. Explain the Concept of Rasashala and Rasamandap.

## 5 MARKS

1. Define rasa and describe its importance
2. Explain the history of Rasashashtra
3. Rasa tarangini
4. Bhaishajya ratnavali
5. Rasa ratna samuchchaya
6. Ananada kanda
7. Importance of rasaushadhis in modern era
8. Discuss- rasa shastra, the science of 21<sup>st</sup> century
9. Explain the Concept of Rasa-Rasayana.
10. Explain the Concept of Raseshwar Darshana.
11. Explain the Concept of Rasashala
12. Rasamandap.

## 2 marks:

1. Define rasa
2. Define rasashashtra
3. Define rasmandapa
4. Define rasayana
5. Define rasmandap
6. Describe importance of disha in rasa shala

## RASASHASTRA POINT 2

- **Brief Description and Application of Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana, Murchana, Shodhana, Marana, Amrutikarana, Lohitakarana, Mruta Loha, Satwa Patana, Druti, Apunarbhava, Niruttha, Rekhapurna, Varitara.**

## 10 MARKS QUESTIONS

- Describe the applications of Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana,
- Describe the applications of Technical terminologies (Paribhasha): Murchana, Shodhana, Marana, Amrutikarana, Lohitakarana,
- Describe the applications of Technical terminologies (Paribhasha): Mruta Loha, Satwa Patana, Druti
- Describe the applications of Technical terminologies (Paribhasha): Apunarbhava, Niruttha in regards to modern chemistry.
- Describe the applications of Technical terminologies (Paribhasha): Apunarbhava, Niruttha, Rekhapurna, Varitara modern physics.

## 5 MARKS QUESTIONS

1. Brief Description and Application of Technical terminology (Paribhasha): Avapa
2. Brief Description and Application of Technical terminology (Paribhasha): Nirvapa
3. Brief Description and Application of Technical terminology (Paribhasha): murchhana
4. Brief Description and Application of Technical terminology (Paribhasha): Dhalana
5. Brief Description and Application of Technical terminology (Paribhasha): shodhana
6. Brief Description and Application of Technical terminology (Paribhasha): Bhavana
7. Brief Description and Application of Technical terminology (Paribhasha): Jarana,
8. Brief Description and Application of Technical terminology (Paribhasha): Marana
9. Brief Description and Application of Technical terminology (Paribhasha): Amrutikarana
10. Brief Description and Application of Technical terminology (Paribhasha): Lohitakarana
11. Brief Description and Application of Technical terminology (Paribhasha): Mruta Loha
12. Brief Description and Application of Technical terminology (Paribhasha): Satwa Patana
13. Brief Description and Application of Technical terminology (Paribhasha): Druti
14. Brief Description and Application of Technical terminology (Paribhasha): Apunarbhava
15. Brief Description and Application of Technical terminology (Paribhasha): Niruttha
16. Brief Description and Application of Technical terminology (Paribhasha): Rekhapurna
17. Brief Description and Application of Technical terminology (Paribhasha): Varitara.

## 2 MARKS:

7. Describe Avapa,
8. Describe Nirvapa
9. Describe Dhalana

10. Describe Bhavana
11. Describe Jarana
12. Describe Murchana
13. Describe Shodhana
14. Describe Marana
15. Describe Amrutikarana
16. Describe Lohitakarana
17. Describe Mruta Loha
18. Describe Satwa Patana
19. Describe Druti
20. Describe Apunarbhava
21. Describe Niruttha
22. Describe Rekhapurna
23. Describe Varitara

### **RASASHASHTRA POINT 3**

**Dravya Varga: Amlavarga, Panchamrittika, Panchagavya, Panchamrita, Ksharashtaka, Dravakagana, Mitra panchaka, Rakta varga, Lavanapanchaka.**

#### **10 MARKS:**

- Discuss the importance of Amlavarga, Panchamrittika, Panchagavya and Panchamrita in rasashashtra.
- Discuss the importance of Ksharashtaka, Dravakagana, Mitra panchaka in rasashashtra.
- Discuss the practical utility of Rakta varga, Lavanapanchaka and Mitrapanchaka.
- Discuss the practical importance of mitra panchaka, panchamrittika and amlavarga in rasashashtra.

#### **5 MARKS**

- Brief Description and Application of Amlavarga,
- Brief Description and Application of Panchagavya
- Brief Description and Application of Ksharashtaka
- Brief Description and Application of Mitra panchaka
- Brief description and application of Rakta varga,
- Brief description and application of Lavanapanchaka.

#### **2 MARKS**

24. Describe Amlavarga,
25. Describe Panchamrittika
26. Describe Panchagavya,
27. Describe Panchamrita,
28. Describe Ksharashtaka
29. Describe Dravakagana

30. Describe Mitra panchaka
31. Describe Rakta varga
32. Describe Lavanapanchaka.

#### **RASASHASHTRA POINT 4**

**Brief description of Yantras and their application Ulukhala Yantra, Khalwa Yantra, Kachhapa Yantra, Damaru Yantra - Vidhyadhara Yantra- Urdhwapatan, Addhapatan & Tiryakpatana Yantra, Jaranartha Tulayantra, Dolayantra, Patalayantra, Palika Yantra, Baluka Yantra, Bhudhara Yantra, Sthali Yantra, Swedana Yantra.**

#### **10 MARKS:**

- Discuss the practical utility and importance of Ulukhala Yantra, Khalwa Yantra with figures.
- Discuss the practical utility and importance of Kachhapa Yantra and Damaru Yantra with figures.
- Discuss the practical utility and importance of Vidhyadhara Yantra and Urdhwapatan with figures.
- Discuss the practical utility and importance of Addhapatan & Tiryakpatana Yantra with figures.
- Discuss the practical utility and importance of Jaranartha Tulayantra, Dolayantra with figures.
- Discuss the practical utility and importance of Patalayantra, Palika Yantra, Baluka Yantra
- Discuss the practical utility and importance of Bhudhara Yantra and Sthali Yantra with figures.
- Discuss the practical utility and importance of ulukhal Yantra and Swedana Yantra with figures.
- Discuss the practical utility and importance of all types of Paatan yantras with figures.

#### **5 MARKS:**

18. Briefly describe the Ulukhala Yantra with figure:
19. Briefly describe the Khalwa Yantra with figure:
20. Briefly describe the Kachhapa Yantra with figure
21. Briefly describe the Damaru Yantra with figure
22. Briefly describe the Vidhyadhara Yantra with figure
23. Briefly describe the Urdhwapatan yantra with figure
24. Briefly describe the Addhapatan with figure
25. Briefly describe the Tiryakpatana Yantra with figure
26. Briefly describe the Jaranartha with figure
27. Briefly describe the Tulayantra with figure
28. Briefly describe the Dolayantra with figure
29. Briefly describe the Patalayantra with figure
30. Briefly describe the Palika Yantra with figure
31. Briefly describe the Baluka Yantra with figure
32. Briefly describe the Bhudhara Yantra with figure
33. Briefly describe the Sthali Yantra with figure
34. Briefly describe the Swedana Yantra with figure

#### **2 MARKS**

33. Describe Ulukhala Yantra,
34. Describe Khalwa Yantra
35. Describe Kachhapa Yantra
36. Describe Damaru Yantra
37. Describe Vidhyadhara Yantra
38. Describe Urdhwapatan yantra
39. Describe Addhapatan yantra
40. Describe Tiryakpatana Yantra,
41. Describe Jaranartha
42. Describe Tulayantra,
43. Describe Dolayantra
44. Describe Patalayantra
45. Describe Palika Yantra
46. Describe Baluka Yantra
47. Describe Bhudhara Yantra
48. Describe Sthali Yantra
49. Describe Swedana Yantra.
50. Draw the figure of Ulukhala Yantra
51. Draw the figure of Khalwa Yantra
52. Draw the figure of Kachhapa Yantra
53. Draw the figure of Damaru Yantra
54. Draw the figure of - Vidhyadhara Yantra
55. Draw the figure of Urdhwapatan yantra
56. Draw the figure of Addhapatan yantra
57. Draw the figure of Tiryakpatana Yantra
58. Draw the figure of Jaranartha Tulayantra
59. Draw the figure of Dolayantra
60. Draw the figure of Patalayantra
61. Draw the figure of Palika Yantra
62. Draw the figure of Baluka Yantra
63. Draw the figure of Bhudhara Yantra
64. Draw the figure of Sthali Yantra
65. Draw the figure of Swedana Yantra.

#### **RASASHASTRA POINT 5**

**Brief description & application of Musha (Crucible): Samanya Musha, Gostani musha, Vajra Musha, Maha musha, Yoga musha, Vrintaka Musha, Malla / Pakwa musha. Different types of crucibles e.g. Silica crucible, platinum crucible. Mudra and Sandhi Bandhana.**

#### **10 MARKS QUESTIONS:**

- Discuss the practical utility and importance of Samanya Musha, Gostani musha, Vajra Musha, and Maha musha.
- Discuss the practical utility of Mudra and Sandhi Bandhana.

## 5 MARKS QUESTIONS

35. Briefly describe the application of Musha (Crucible)
36. Briefly describe the application of Samanya Musha
37. Briefly describe the application of different types of crucibles e.g. Silica crucible, platinum crucible.
38. Briefly describe the application of Mudra and Sandhi Bandhana.

## 2 MARKS:

66. Draw the figure of Samanya Musha and write uses.
67. Draw the figure of Gostani Musha and write uses.
68. Draw the figure of crucible and write uses.
69. Describe Yoga musha
70. Write a short note on Vrintaka Musha
71. Write a short note on Malla / Pakwa musha.
72. Write a short note on Different types of crucibles e.g. Silica crucible, platinum crucible.
73. Write a short note on Mudra
74. Write a short note on Sandhi Bandhana.
75. Write a short note on Musha
76. Write a short note on Gostani Musha
77. Write a short note on Crucibles

## RASASHASTRA POINT 6

**Brief description & applications of Chullika, Satwapatana Koshthi, Patala Koshthi, Gara Koshthi, Angarakoshthi and knowledge of various heating appliances viz. Gas stove, Hot plate, Heating mantle, Induction Stove, Hot Air Oven.**

## 10 MARKS

- Discuss the applications of Chullika and Satwapatana Koshthi
- Discuss the applications of various heating appliances viz. Gas stove, Hot plate, Heating mantle, Induction Stove, Hot Air Oven.

## 5 MARKS

39. Briefly describe the application of Chullika
40. Briefly describe the application of Satwapatana Koshthi
41. Briefly describe the application of Gas stove
42. Briefly describe the application of Hot plate
43. Briefly describe the application of Induction Stove
44. Briefly describe the application of Hot Air Oven.

## 2 MARKS

78. Write a short note on Chullika
79. Write a short note on Satwapatana Koshthi
80. Write a short note on Gas stove

81. Write a short note on Hot plate
82. Write a short note on Induction Stove
83. Write a short note on Hot Air Oven.
84. Write a short note on Heating mantle

### **RASASHASHTRA POINT 7**

**Concept, definition and types of Puta: Suryaputa, Chandraputa, Gomayaputa, Lawakaputa, Kukkutaputa, Kapotaputa, Varahaputa, Gajaputa, Mahaputa, Kumbhaputa, Valukaputa, Bhudharaputa, Applications of Electric muffle furnace and fuel (diesel) dependent furnace. Brief introduction to thermocouple and pyrometer.**

#### **10 MARKS:**

- Explain the Concept, definition and types of Puta
- Explain the importance of Suryaputa and Chandraputa.
- Explain the Gomayaputa, Lawakaputa, Varahaputa, Kukkutaputa and Kapotaputa
- Discuss the Gajaputa and Mahaputa.
- Discuss the applications of Electric muffle furnace and fuel (diesel) dependent furnace in Rasashashtra.

#### **5 MARKS:**

45. Briefly describe the definition and types of Puta
46. Briefly describe the design and applications of Suryaputa
47. Briefly describe the design and applications of Chandraputa
48. Briefly describe the design and applications of Gomayaputa
49. Briefly describe the design and applications of Lawakaputa
50. Briefly describe the design and applications of Kukkutaputa
51. Briefly describe the design and applications of Kapotaputa
52. Briefly describe the design and applications of Varahaputa
53. Briefly describe the design and applications of Gajaputa
54. Briefly describe the design and applications of Mahaputa
55. Briefly describe the design and applications of Kumbhaputa
56. Briefly describe the design and applications of Valukaputa
57. Briefly describe the design and applications of Bhudharaputa
58. Briefly describe the design and applications of Applications of Electric muffle furnace
59. Briefly describe the design and applications of fuel dependent furnace.
60. Briefly describe the applications of thermocouple and pyrometer.

#### **2 MARKS**

85. Write a short note on Concept of Puta
86. Write a short note on Concept of Suryaputa
87. Write a short note on Concept of Chandraputa
88. Write a short note on Concept of Gomayaputa
89. Write a short note on Concept of Lawakaputa
90. Write a short note on Concept of Kukkutaputa
91. Write a short note on Concept of Kapotaputa
92. Write a short note on Concept of Varahaputa
93. Write a short note on Concept of Gajaputa
94. Write a short note on Concept of Mahaputa
95. Write a short note on Concept of Kumbhaputa
96. Write a short note on Concept of Valukaputa
97. Write a short note on Concept of Bhudharaputa
98. Write a short note on Electric muffle furnace
99. Write a short note on Concept of fuel (diesel) dependent furnace
100. Write a short note on Concept of thermocouple
101. Write a short note on Concept of pyrometer.

#### **RASASHASTRA POINT 8**

**Knowledge of Parada: Synonyms, Occurrence, natural and artificial sources of Parada, Hingulottha parada, Types of Parada, Parada Dosha: Naisargika, Yougika, Aupadhika (Kanchuka). Grahya-Agraha Parada, Parada gati, Parada bandha, Shodhana of Parada. Parada sanskara and brief description of Ashtasamskara.**

- Briefly describe about Parada
- Write the Synonyms, Occurrence, natural and artificial sources of Parada and Hingulottha parada,
- What are the types of Parada, Parada Dosha: Naisargika, Yougika, Aupadhika (Kanchuka).
- Discuss the Grahya-Agraha qualities of Parada and Parada gati.
- Briefly describe the Parada bandha
- Describe the importance of Shodhana of Parada and Sanskara.
- What is Parada sanskara and brief description of first four Parada Sanskara
- What is Parada Sanskara? Describe the Paatana sanskara.
- What is Parada Sanskara?
- Describe the Parada Sanskara with the figures.
- Explain the changes in Parada after every Sanskara

#### **5 MARKS:**

61. What are the Parada Synonyms.
62. Describe the Occurrence, natural and artificial sources of Parada.
63. Describe the method of Hingulottha parada,
64. Briefly describe the types of Parada and name Parada Dosha:
65. Briefly describe the Parada Dosha Naisargika, Yougika, Aupadhika (Kanchuka).

66. Briefly describe the qualities of Grahya-Agraha Parada,
67. Briefly describe the Parada gati.
68. Briefly describe Parada bandha.
69. Explain the methods and importance of Parada Shodhana
70. Explain the names of Parada sanskara and write any 2 samskara in detail.
71. Name the Ashtasamskara and describe its importance.
72. What is the practical utility of Parada Sanskara.

**2 MARKS:**

2 marks:

102. Write a short note on Synonyms of Parada,
103. Write a short note on sources of Parada,
104. Write a short note on Hingulottha parada,
105. Write a short note on types of Parada,
106. Write a short note on Parada Dosha
107. Name the Naisargika, Yougika and Aupadhika (Kanchuka) Dosha.
108. Write a short note on Grahya Parada,
109. Write a short note on Parada gati,
110. Write a short note on Parada bandha
111. Write a short note on Shodhana of Parada.
112. Write a short note on Parada sanskara
113. Write a short note on Ashtasamskara.

**RASASHASTRA POINT 9**

**Concept of Murchhana and Jarana of Parada, Preparation of Kajjali, Classification of Rasaushadhi: Khalvi rasa e.g. Tribhuvana Keerti Rasa, Parpati Rasa- Rasa Parpati, Kupipakva Rasa- Rasa sindur, Pottali rasa - Hemagarbha pottali. Rasa sevana vidhi and pathya and apathya.**

**10 MARKS**

- Explain the concept of Murchhana and Jarana of Parada,
- Explain the method of preparation of Kajjali.
- Describe the Classification of Rasaushadhi:
- Describe the Kharaliya rasayana
- What is Parpati Rasa? Describe the method of Rasa Parpati.
- What is Kupipakva Rasayana.
- Explain the manufacturing method of Rasa sindur with special reference to Kramagni.
- Describe the Pottali rasayana and explain Hemagarbha pottali.
- Importance of Rasa sevana vidhi and pathya-apathya.

**5 MARKS:**

73. Briefly describe the Concept of Murchhana of Parada

74. Briefly describe the Jarana of Parada
75. Briefly describe the Preparation method of Kajjali,
76. Briefly describe the Classification of Rasaushadhi
77. Briefly describe the Kharaliya rasayana with example of Tribhuvana Keerti Rasa
78. Briefly describe the Parpati Rasa
79. Briefly describe the Rasa Parpati
80. Briefly describe the Kupipakva Rasa
81. Briefly describe the Rasa sindur
82. Briefly describe the Pottali rasayana
83. Briefly describe the Hemagarbha pottali.
84. Briefly describe the Rasa sevana vidhi
85. Briefly describe the Pathya and apathya during mercurial preparations.

**2 MARKS:**

114. Write a short note on Concept of Murchhana
115. Write a short note on Jarana of Parada
116. Write a short note on Kajjali,
117. Classification of Rasaushadhi
118. Write a short note on Khalvi rasa
119. Write a short note on Tribhuvana Keerti Rasa,
120. Write a short note on Parpati Rasa
121. Write a short note on Rasa Parpati
122. Write a short note on Kupipakva Rasa
123. Write a short note on Rasa sindur
124. Write a short note on Pottali rasa
125. Write a short note on Hemagarbha pottali.
126. Write a short note on Rasa sevana vidhi
127. Write a short note on pathya during Rasa Sevana.
128. Write a short note on apathy during Rasa Sevana.

**POINT 10 Brief introductions of quality control, standardization and GMP of Rasaoushadhies.**

**10 MARKS:**

- Brief introduction of quality control , standardization and GMP of Rasaoushadhies.
- What is the need of quality control in Ayurveda Drug manufacturing.
- What is the standardization of Rasaoushadhies.
- What is GMP?

**5 MARKS:**

86. Describe the importance of quality control
87. Describe the role of standardization
- 88.** Describe the GMP of Rasaoushadhies.
- 89.** Describe the Drug manufacturing act.

**2 MARKS:**

129. Write a short note on quality control  
130. Write a short note on standardization  
131. Write a short note on GMP of Rasaoushadhies.

1. Explain it : अल्प मात्रौप्योगितातवाद अरुचिरप्रसंगतः  
क्षीप्रमारोग्य दयित्वाद् औषधेभ्यो अधिको रसः
2. Explain it : सिद्धे रसेकरिश्यमी निर्दारिद्र्यम् इदं गदम जगतं
3. Complete the verse and Explain it : तैले तत्रे गवाम मुत्रे .....
4. Explain it : संस्कारो हि गुणान्ताराधानम्
5. Complete the verse and Explain it : जलगो जल रूपेण ....
6. Explain it : अन्तः सुनीलो बहिरुज्वलो यो मध्याह्न सूर्य प्रतिम प्रकाशः शस्तः
7. Complete the verse and Explain it : लोहानाम मारणं श्रेष्ठं .....
8. Explain it : अरिलोहेन लोहस्य मारणं दुर्गुणप्रदम्
9. Explain it : रसादि द्रव्य पाकानाम प्रमाणं जापनं पुटम्
10. Explain it : पुटादोषविनाशः स्यात् पुटादेव गुणोदयः
11. Explain it : मृतं तरति यत्तोये लोहम् वारितरं हि तत
12. Complete the verse and Explain it : स्वर्णं चम्पक वर्णाभं .....
13. Explain it : लोहादिनाम् मृतानाम वै शिष्ट दोशाप्नुत्ये  
क्रियते यस्तु संस्कारो हि अमृतीकरणं स्मृतं
14. Explain it : मृतानी लोहानी रसिभवन्ति
15. Explain it : सुश्लक्ष्ण कज्जलाभो कज्जली इति अभिधीयते
16. Explain it : द्रुत कज्जलीका मोचा पत्रके चिपटी कृता  
स पोट पर्पटी सेव बालाध्यखिल रोगनुत
17. Explain it : पूर्वं लोहे परीक्षेत ततो देहे प्रयोजयेत्

# RASA SHASHTRA Section - B

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**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**1. Maharasa –Abhraka (Biotite Mica), Vaikrantha, Makshika (Chalco-pyrite), Vimala (Iron Pyrite), Shilajatu, Sasyaka (Peacock ore), Chapala and Rasaka (Sphalerite).**

**10 MARKS:**

10 MARKS:

1. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Abhraka
2. Briefly describe the Shodhana, Marana and Amritikaran-Lohitikaran of Abhrak Bhasma, Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Abhraka.
3. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Makshika
4. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Shilajeeta
5. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Abhraka (Biotite Mica).
6. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vaikrantha
7. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Makshika (Chalco-pyrite)
8. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vimala (Iron Pyrite).

9. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Shilajatu.
10. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Sasyaka (Peacock ore)
11. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Chapala.
12. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Rasaka (Sphalerite).
13. Describe the Shodhana and the Marana of Abhraka (Biotite Mica)
14. Describe the amritikarana and Lohitikarana of Abharka
15. Describe the Shodhana and the Marana of Vaikrantha
16. Describe the Shodhana and the Marana of Makshika (Chalco-pyrite)
17. Describe the Shodhana and the Marana of Vimala (Iron Pyrite)
18. Describe the Shodhana of Shilajatu
19. Describe the Shodhana and the Marana of Sasyaka (Peacock ore)
20. Describe the Shodhana and the Marana of Chapala
21. Describe the Shodhana and the Marana of Rasaka (Sphalerite).

5 marks:

1. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Abhraka (Biotite Mica),
2. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Vaikrantha
3. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Makshika (Chalco-pyrite),
4. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Vimala (Iron Pyrite),
5. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Shilajatu,
6. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Abhraka (Biotite Mica)
7. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Vaikrantha
8. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Makshika (Chalco-pyrite)
9. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Vimala (Iron Pyrite)
10. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Shilajatu
11. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Sasyaka (Peacock ore)
12. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Chapala

13. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Rasaka (Sphalerite).
14. Describe the Maraana, therapeutic dose and uses of Abhraka (Biotite Mica)
15. Describe the Maraana, therapeutic dose and uses of Vaikrantha
16. Describe the Maraana, therapeutic dose and uses of Makshika (Chalco-pyrite)
17. Describe the Maraana, therapeutic dose and uses of Vimala (Iron Pyrite)
18. Describe the therapeutic dose and uses of Shilajatu
19. Describe the Maraana, therapeutic dose and uses of Sasyaka (Peacock ore)
20. Describe the Maraana, therapeutic dose and uses of Chapala
21. Describe the Maraana, therapeutic dose and uses of Rasaka (Sphalerite).
22. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Abhraka (Biotite Mica)
23. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Vaikrantha
24. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Makshika (Chalco-pyrite)
25. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Vimala (Iron Pyrite)
26. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Sasyaka (Peacock ore)
27. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Rasaka (Sphalerite).

2 marks:

2marks:

1. Abhraka (Biotite Mica)
2. Vaikrantha
3. Makshika (Chalco-pyrite)
4. Vimala (Iron Pyrite)
5. Shilajatu
6. Sasyaka (Peacock ore)
7. Chapala
8. Rasaka (Sphalerite).
9. Abhraka (Biotite Mica) Shodhana
10. Vaikrantha Shodhana
11. Makshika (Chalco-pyrite) Shodhana
12. Vimala (Iron Pyrite) Shodhana
13. Shilajatu Shodhana
14. Sasyaka (Peacock ore) Shodhana
15. Chapala Shodhana
16. Rasaka (Sphalerite) Shodhana.

17. Abhraka (Biotite Mica) Maarana
18. Vaikrantha Maarana
19. Makshika (Chalco-pyri Maarana te)
20. Vimala (Iron Pyrite) Maarana
21. Sasyaka (Peacock or Maarana e)
22. Chapala Maarana Maarana
23. Rasaka (Sphalerite). Maarana
24. Grahya Abhraka (Biotite Mica)
25. Grahya Vaikrantha
26. Grahya Makshika (Chalco-pyrite)
27. Grahya Vimala (Iron Pyrite)
28. Grahya Shilajatu
29. Grahya Sasyaka (Peacock ore)
30. Grahya Chapala
31. Grahya Rasaka (Sphalerite).
32. Important formulations of Abhraka (Biotite Mica)
33. Important formulations of Vaikrantha
34. Important formulations of Makshika (Chalco-pyrite)
35. Important formulations of Vimala (Iron Pyrite)
36. Important formulations of Shilajatu
37. Important formulations of Sasyaka (Peacock ore)
38. Important formulations of Chapala
39. Important formulations of Rasaka (Sphalerite).
40. Properties, dose, anupan and therapeutic uses of Abhraka
41. Properties, dose, anupan and therapeutic uses of Vaikrantha
42. Properties, dose, anupan and therapeutic uses of Makshika (Chalco-pyrite)
43. Properties, dose, anupan and therapeutic uses of Vimala (Iron Pyrite)
44. Properties, dose, anupan and therapeutic uses of Shilajatu
45. Properties, dose, anupan and therapeutic uses of Sasyaka (Peacock ore)
46. Properties, dose, anupan and therapeutic uses of Chapala
47. Properties, dose, anupan and therapeutic uses of Rasaka (Sphalerite).

## **RASA SHASHTRA**

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**2. Uparasa – Gandhaka (Sulfur), Gairika (Red Ochre), Kasisa (Green Vitriol), Kankshi (Alum), Haratala (Orpiment), Manahshila (Realgar), Anjana and Kankustha.**

**10 MARKS**

22. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gandhaka (Sulfur),
23. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gairika (Red Ochre)
24. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kasisa (Green Vitriol),
25. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kankshi (Alum),
26. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Haratala (Orpiment)
27. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Manahshila (Realgar)
28. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Anjana
29. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gandhaka (Sulfur).
30. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gairika (Red Ochre).
31. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kasisa (Green Vitriol)
32. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kankshi (Alum)
33. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Haratala (Orpiment)

34. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Manahshila (Realgar)
35. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Anjana.
36. Briefly discuss the “Anjana vinishchaya”
37. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kankustha.
38. Describe the Shodhana of Gandhaka (Sulfur)
39. Describe the Shodhana of Gairika (Red Ochre)
40. Describe the Shodhana and the Marana of Kasisa (Green Vitriol)
41. Describe the Shodhana and the Marana of Kankshi (Alum)
42. Describe the Shodhana and the Marana of Haratala (Orpiment)
43. Describe the method of Rasamanikya with dose and anupana.
44. Describe the Shodhana and the Marana of Manahshila (Realgar)
45. Describe the manufacturing process of Rasanjana

5 marks

28. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Gandhaka (Sulfur),
29. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Gairika (Red Ochre)
30. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Haratala (Orpiment)
31. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of Manahshila (Realgar),
32. Describe the Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata of various types of Anjana
33. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kankustha.
34. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Gandhaka (Sulfur)
35. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Gairika (Red Ochre)
36. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Kasisa (Green Vitriol)
37. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Kankshi (Alum)
38. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Haratala (Orpiment)
39. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Manahshila (Realgar)
40. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Anjana
41. Describe the Ashuddha, and Avidhee Sevanjanya Dosh and Shodhana of Kankustha.
42. Describe the therapeutic dose and uses of Gandhaka (Sulfur)

43. Describe the Maraana, therapeutic dose and uses of Gairika (Red Ochre)
44. Describe the Maraana, therapeutic dose and uses of Kasisa (Green Vitriol)
45. Describe the Maraana, therapeutic dose and uses of Kankshi (Alum)
46. Describe the Maraana, therapeutic dose and uses of Haratala (Orpiment)
47. Describe the Maraana, therapeutic dose and uses of Manahshila (Realgar)
48. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Gairika (Red Ochre)
49. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Kasisa (Green Vitriol)
50. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Kankshi (Alum)
51. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Haratala (Orpiment)
52. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Manahshila (Realgar)

2 marks:

48. Gandhaka (Sulfur)
49. Gairika (Red Ochre)
50. Kasisa (Green Vitriol)
51. Kankshi (Alum)
52. Haratala (Orpiment)
53. Manahshila (Realgar)
54. Anjana
55. Kankustha.
56. Gandhaka (Sulfur) Shodhana
57. Gairika (Red Ochre) Shodhana
58. Kasisa (Green Vitriol) Shodhana
59. Kankshi (Alum) Shodhana
60. Haratala (Orpiment) Shodhana
61. Manahshila (Realgar) Shodhana
62. Anjana Shodhana
63. Kankustha. Shodhana
64. Gandhaka (Sulfur) druti nirmana
65. Gandhaka taila nirmana
66. Kasisa (Green Vitriol) Maarana
67. Kankshi (Alum) Maarana
68. Haratala (Orpiment) Maarana
69. Manahshila (Realgar) Maarana
70. Rasanjana nirmana vidhi
71. Pushpanjana nirmana vidhi
72. Anjana derived from natural sources
73. Anjana prepared by artificial method
74. Kankustha vinishchaya
75. Grahya Gandhaka (Sulfur)

76. Grahya Gairika (Red Ochre)
77. Grahya Kasisa (Green Vitriol)
78. Grahya Kankshi (Alum)
79. Grahya Haratala (Orpiment)
80. Grahya Manahshila (Realgar)
81. Grahya Kankustha.
82. Important formulations of Gandhaka (Sulfur)
83. Important formulations of Gairika (Red Ochre)
84. Important formulations of Kasisa (Green Vitriol)
85. Important formulations of Kankshi (Alum)
86. Important formulations of Haratala (Orpiment)
87. Important formulations of Manahshila (Realgar)
88. Important formulations of Anjana
89. Important formulations of Kankustha.
90. Properties, dose, anupan and therapeutic uses of Gandhaka (Sulfur)
91. Properties, dose, anupan and therapeutic uses of Gairika (Red Ochre)
92. Properties, dose, anupan and therapeutic uses of Kasisa (Green Vitriol)
93. Properties, dose, anupan and therapeutic uses of Kankshi (Alum)
94. Properties, dose, anupan and therapeutic uses of Haratala (Orpiment)
95. Properties, dose, anupan and therapeutic uses of Manahshila (Realgar)
96. Properties, dose, anupan and therapeutic uses of Anjana
97. Properties, dose, anupan and therapeutic uses of Kankustha.

## **RASA SHASHTRA**

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**3. Sadharana Rasa – Kampillaka, Gauri pashana (Arsenic oxide), Navasadara (Ammonium chloride), Kaparda (Cowry), Agnijara, Giri Sindura (Red oxide of Hg), Hingula (Red Cinnabar) and Mriddara shringa (Litharge).**

46. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kampillaka

47. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gauri pashana (Arsenic oxide)
48. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Navasadara (Ammonium chloride)
49. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kaparda (Cowry)
50. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Giri Sindura (Red oxide of Hg)
51. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Hingula (Red Cinnabar)
52. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Mriddara shringa (Litharge).
53. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kampillaka.
54. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Gauri pashana (Arsenic oxide)
55. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Navasadara (Ammonium chloride)
56. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kaparda (Cowry)
57. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Giri Sindura (Red oxide of Hg)
58. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Hingula (Red Cinnabar)

59. Briefly describe the properties, dose, anupana and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Mriddara shringa (Litharge).
60. Describe the Shodhana and the Marana of Kampillaka
61. Describe the Shodhana and the Marana of Gauri pashana (Arsenic oxide)
62. Describe the Shodhana and the Marana of Kaparda (Cowry)
63. Describe the Shodhana of Hingula (Red Cinnabar)
64. Describe the Shodhana of Mriddara shringa (Litharge).

5 marks:

53. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kampillaka,
54. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Gauri pashana (Arsenic oxide),
55. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Navasagara (Ammonium chloride),
56. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kaparda (Cowry),
57. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Agnijara,
58. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Giri Sindura (Red oxide of Hg)
59. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Hingula (Red Cinnabar)
60. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Mriddara shringa (Litharge).
61. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Kampillaka
62. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Gauri pashana (Arsenic oxide)
63. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Navasagara (Ammonium chloride)
64. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Kaparda (Cowry)
65. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Agnijara
66. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Giri Sindura (Red oxide of Hg)
67. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Hingula (Red Cinnabar)
68. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Mriddara shringa (Litharge).
69. Describe the therapeutic dose and uses of Kampillaka
70. Describe the Marana, therapeutic dose and uses of Gauri pashana (Arsenic oxide)
71. Describe the Marana, therapeutic dose and uses of Navasagara (Ammonium chloride)
72. Describe the Marana, therapeutic dose and uses of Kaparda (Cowry)
73. Describe the Marana, therapeutic dose and uses of Giri Sindura (Red oxide of Hg)
74. Describe the therapeutic dose and uses of Hingula (Red Cinnabar)
75. Describe the Marana, therapeutic dose and uses of Mriddara shringa (Litharge).
76. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Navasagara (Ammonium chloride)

77. What is Satvapatana? Describe the Satvapatana method, uses of Satva and dose of Satva obtained from Hingula (Red Cinnabar)

98. Kampillaka

99. Gauri pashana (Arsenic oxide)

100. Navasadara (Ammonium chloride)

101. Kaparda (Cowry)

102. Agnijara

103. Giri Sindura (Red oxide of Hg)

104. Hingula (Red Cinnabar)

105. Mriddara shringa (Litharge).

106. Kampillaka Shodhana

107. Gauri pashana (Arsenic oxide) Shodhana

108. Navasadara (Ammonium chloride) Shodhana

109. Kaparda (Cowry) Shodhana

110. Agnijara Shodhana

111. Giri Sindura (Red oxide of Hg) Shodhana

112. Hingula (Red Cinnabar) Shodhana

113. Mriddara shringa (Litharge). Shodhana

114. Kampillaka identification

115. Gauri pashana (Arsenic oxide) Maarana

116. Kaparda (Cowry) Maarana

117. Mriddara shringa (Litharge) Maarana

118. Grahya Kampillaka

119. Adulteration in Kampillaka

120. Gauri pashana (Arsenic oxide)

121. Navasadara (Ammonium chloride)

122. Kaparda (Cowry)

123. Agnijara identification

124. Giri Sindura (Red oxide of Hg)

125. Grahya Hingula (Red Cinnabar)

126. Grahya Mriddara shringa (Litharge).

127. Important formulations of Kampillaka

128. Important formulations of Gauri pashana (Arsenic oxide)

129. Important formulations of Navasadara (Ammonium chloride)

130. Important formulations of Kaparda (Cowry)

131. Important formulations of Agnijara

132. Important formulations of Giri Sindura (Red oxide of Hg)

133. Important formulations of Hingula (Red Cinnabar)

134. Important formulations of Mriddara shringa (Litharge).

135. Properties, dose, anupan and therapeutic uses of Kampillaka

136. Properties, dose, anupan and therapeutic uses of Gauri pashana (Arsenic oxide)

137. Properties, dose, anupan and therapeutic uses of Navasadara (Ammonium chloride)

138. Properties, dose, anupan and therapeutic uses of Kaparda (Cowry)

139. Properties, dose, anupan and therapeutic uses of Agnijara
140. Properties, dose, anupan and therapeutic uses of Giri Sindura (Red oxide of Hg)
141. Properties, dose, anupan and therapeutic uses of Hingula (Red Cinnabar)
142. Properties, dose, anupan and therapeutic uses of Mriddara shringa (Litharge).
- 143.

#### POINT 4

#### RASA SHASHTRA

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**Dhatu -Swarna (Gold), Rajata (Silver), Tamra (Copper), Loha (Iron), Vanga (Tin), Naga (Lead), Yashada (Zinc), Kamsya (Bronze), Pittala (Brass), Vartaloha. Dhatu -graha sambandha.**

65. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Swarna (Gold),
66. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Rajata (Silver),
67. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Tamra (Copper)
68. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Loha (Iron),
69. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vanga (Tin)
70. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Naga (Lead)
71. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Yashada (Zinc),

72. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kamsya (Bronze),
73. Briefly describe the occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Pittala (Brass),
74. Briefly describe the Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vartaloha.
75. Briefly explain the Dhatu-Graha sambandha.
76. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Swarna (Gold)
77. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Rajata (Silver)
78. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Tamra (Copper)
79. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Loha (Iron)
80. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vanga (Tin)
81. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Naga (Lead)
82. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Yashada (Zinc)
83. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kamsya (Bronze)
84. Describe the Shodhana and the Marana of Swarna (Gold)
85. Describe the Shodhana and the Marana of Rajata (Silver)
86. Describe the Shodhana and the Marana of Tamra (Copper)
87. Describe the Shodhana and the Marana of Loha (Iron)
88. Describe the Shodhana and the Marana of Vanga (Tin)
89. Describe the Shodhana and the Marana of Naga (Lead)
90. Describe the Shodhana and the Marana of Yashada (Zinc)
91. Describe the Shodhana and the Marana of Vartaloha.

5 marks

78. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Swarna (Gold),
79. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Rajata (Silver)
80. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Tamra (Copper)
81. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Loha (Iron)
82. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Vanga (Tin)
83. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Naga (Lead)
84. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Yashada (Zinc)
85. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kamsya (Bronze)
86. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Pittala (Brass)
87. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Vartaloaha.
88. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Swarna (Gold)
89. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Rajata (Silver)
90. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Tamra (Copper)
91. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Loha (Iron)
92. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Vanga (Tin)
93. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Naga (Lead)
94. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Yashada (Zinc)
95. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Kamsya (Bronze)
96. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Pittala (Brass)
97. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Vartaloaha.
98. Describe the Maraana, therapeutic dose and uses of Swarna (Gold)
99. Describe the Maraana, therapeutic dose and uses of Rajata (Silver)
100. Describe the Maraana, therapeutic dose and uses of Tamra (Copper)
101. Describe the Maraana, therapeutic dose and uses of Loha (Iron)
102. Describe the Maraana, therapeutic dose and uses of Vanga (Tin)
103. Describe the Maraana, therapeutic dose and uses of Naga (Lead)
104. Describe the Maraana, therapeutic dose and uses of Yashada (Zinc)
105. Describe the Maraana, therapeutic dose and uses of Kamsya (Bronze)
106. Describe the Maraana, therapeutic dose and uses of Vartaloaha.

2marks

144. Swarna (Gold)
145. Rajata (Silver)
146. Tamra (Copper)
147. Loha (Iron)
148. Vanga (Tin)
149. Naga (Lead)
150. Yashada (Zinc)
151. Kamsya (Bronze)
152. Pittala (Brass)
153. Vartaloaha.

154. Swarna (Gold) Shodhana
155. Rajata (Silver) Shodhana
156. Tamra (Copper) Shodhana
157. Loha (Iron) Shodhana
158. Vanga (Tin) Shodhana
159. Naga (Lead) Shodhana
160. Yashada (Zinc) Shodhana
161. Kamsya (Bronze) Shodhana
162. Pittala (Brass) Shodhana
163. Vartaloha. Shodhana
164. Swarna (Gold) Maarana
165. Rajata (Silver) Maarana
166. Tamra (Copper) Maarana
167. Loha (Iron) Maarana
168. Vanga (Tin) Maarana
169. Naga (Lead) Maarana
170. Yashada (Zinc) Maarana
171. Kamsya (Bronze) Maarana
172. Pittala (Brass) Maarana
173. Vartaloha. Maarana
174. Grahya Swarna (Gold)
175. Grahya Rajata (Silver)
176. Grahya Tamra (Copper)
177. Grahya Loha (Iron)
178. Grahya Vanga (Tin)
179. Grahya Naga (Lead)
180. Grahya Yashada (Zinc)
181. Important formulations of Swarna (Gold)
182. Important formulations of Rajata (Silver)
183. Important formulations of Tamra (Copper)
184. Important formulations of Loha (Iron)
185. Important formulations of Vanga (Tin)
186. Important formulations of Naga (Lead)
187. Important formulations of Yashada (Zinc)
188. Important formulations of Kamsya (Bronze)
189. Important formulations of Pittala (Brass)
190. Important formulations of Vartaloha.
191. Properties, dose, anupan and therapeutic uses of Swarna (Gold)
192. Properties, dose, anupan and therapeutic uses of Rajata (Silver)
193. Properties, dose, anupan and therapeutic uses of Tamra (Copper)
194. Properties, dose, anupan and therapeutic uses of Loha (Iron)
195. Properties, dose, anupan and therapeutic uses of Vanga (Tin)
196. Properties, dose, anupan and therapeutic uses of Naga (Lead)
197. Properties, dose, anupan and therapeutic uses of Yashada (Zinc)
198. Properties, dose, anupan and therapeutic uses of Kamsya (Bronze)

199. Properties, dose, anupan and therapeutic uses of Pittala (Brass)  
200. Properties, dose, anupan and therapeutic uses of Vartaloha.

## POINT 5

### RASA SHASHTRA

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**5. Ratna - Manikya (Ruby), Mukta (Pearl), Pravala (Coral), Tarkshya (Emerald), Pushparaga (Topaz), Vajra (Diamond), Nilam (Sapphire), Gomeda (Zircon or Cinnamone stone), Vaidurya (Cats eye).  
Ratnapariksha, Ratnadosha, Ratna-graha sambandha.**

#### 10 marks:

92. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Mukta (Pearl)
93. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Pravala (Coral)
94. Briefly describe the pproperties, dose, anupan and therapeutic uses, pathya – apanya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Vajra (Diamond)
95. Describe the Shodhana and the Marana of Pravala (Coral)

#### 5 marks:

107. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Manikya (Ruby)
108. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Mukta (Pearl)
109. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Pravala (Coral)
110. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Vajra (Diamond),
111. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Nilam (Sapphire),

112. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Gomedā (Zircon or Cinnamone stone),
  113. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Vaidurya (Cats eye).
  114. Describe the Ratnapariksha methods.
  115. Describe Ratnadosha,
  116. Describe Ratna-graha sambandha.
  117. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Mukta (Pearl)
  118. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Pravala (Coral)
  119. Describe the therapeutic dose and uses of Mukta (Pearl)
  120. Describe the Maraana, therapeutic dose and uses of Pravala (Coral)
- 2 marks:
201. Manikya (Ruby)
  202. Mukta (Pearl)
  203. Pravala (Coral)
  204. Tarkshya (Emerald)
  205. Pushparaga (Topaz)
  206. Vajra (Diamond)
  207. Nilam (Sapphire)
  208. Gomedā (Zircon or Cinnamone stone)
  209. Vaidurya (Cats eye).
  210. Ratnapariksha
  211. Ratnadosha
  212. Ratna-graha sambandha.
  213. Manikya (Ruby) Shodhana
  214. Mukta (Pearl) Shodhana
  215. Pravala (Coral) Shodhana
  216. Manikya (Ruby) Maarana
  217. Mukta (Pearl) Maarana
  218. Pravala (Coral) Maarana
  219. Vajra (Diamond) Maarana
  220. Important formulations of Manikya (Ruby)
  221. Important formulations of Mukta (Pearl)
  222. Important formulations of Pravala (Coral)
  223. Important formulations of Vajra (Diamond)
  224. Properties, dose, anupan and therapeutic uses of Manikya (Ruby)
  225. Properties, dose, anupan and therapeutic uses of Mukta (Pearl)
  226. Properties, dose, anupan and therapeutic uses of Pravala (Coral)
  - 227.

## POINT 6

## RASA SHASHTRA

Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:

6. Uparatna- Vaikranta (Tourmaline), Suryakanta (Sun stone), Chandrakanta (Moon stone), Rajavarta (Lapis lazuli), Perojaka (Turquoise), Sphatikamani (Quartz), Trinakanta, Palanka, Putika, Rudhir.

96. Briefly explain the Ratna Varga, Ratnapariksha, Ratnadosha and Ratna-graha sambandha.

97. Briefly explain the Uparatna Varga.

### 2 marks

- 228. Vaikranta (Tourmaline)
- 229. Suryakanta (Sun stone)
- 230. Chandrakanta (Moon stone)
- 231. Rajavarta (Lapis lazuli)
- 232. Perojaka (Turquoise)
- 233. Sphatikamani (Quartz)
- 234. Trinakanta
- 235. Palanka
- 236. Putika
- 237. Rudhir.

## POINT 7

### RASA SHASHTRA

Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:

Sudha varga – Sudha (Lime stone), Kaparda (Cowries), Shukti (Oyster Shell), Shankh (Conch Shell), Mriga shringa (Stag horn), Khatika, Godanti (Gypsum) and Samudraphena (Cattle Fish bone), Kukkutanda twak (Hen's Egg Shell).

### 10 MARKS

98. Briefly explain the Sudha Varga

99. Briefly describe the properties, dose, anupana and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Kaparda (Cowries)
100. Briefly describe the properties, dose, anupana and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Shukti (Oyster Shell)
101. Briefly describe the properties, dose, anupana and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Shankh (Conch Shell)
102. Briefly describe the properties, dose, anupana and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Mriga shringa (Stag horn)
103. Describe the Shodhana and the Marana of Kaparda (Cowries)
104. Describe the Shodhana and the Marana of Shukti (Oyster Shell)
105. Describe the Shodhana and the Marana of Shankh (Conch Shell)
106. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kaparda (Cowries),
107. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Shukti (Oyster Shell)
108. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Shankh (Conch Shell)
109. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Godanti (Gypsum)
110. Describe the Synonyms, identification, Sources, Grahya and Agrahyata of Kasturi
111. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Kaparda (Cowries)
112. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Shukti (Oyster Shell)
113. Describe the Ashuddha, and Avidhee Sevanjanya Dosha and Shodhana of Shankh (Conch Shell)
114. Describe the Maraana, therapeutic dose and uses of Kaparda (Cowries)
115. Describe the Maraana, therapeutic dose and uses of Shukti (Oyster Shell)
116. Describe the Maraana, therapeutic dose and uses of Shankh (Conch Shell)
117. Describe the Maraana, therapeutic dose and uses of Mriga shringa (Stag horn)
118. Describe the Maraana, therapeutic dose and uses of Godanti (Gypsum)
119. Describe the Maraana, therapeutic dose and uses of Kukkutanda twak (Hen's Egg Shell).

2 marks:

238. Sudha (Lime stone)
239. Kaparda (Cowries)
240. Shukti (Oyster Shell)
241. Shankh (Conch Shell)
242. Mriga shringa (Stag horn)
243. Khatika
244. Godanti (Gypsum)
245. Samudraphena (Cattle Fish bone)
246. Kukkutanda twak (Hen's Egg Shell).
247. Sikata (Silica)
248. Kaparda (Cowries) Shodhana

249. Shukti (Oyster Shell) Shodhana
250. Shankh (Conch Shell) Shodhana
251. Mriga shringa (Stag horn) Shodhana
252. Khatika Shodhana
253. Godanti (Gypsum) Shodhana
254. Samudraphena (Cattle Fish bone) Shodhana
255. Kaparda (Cowries) Maarana
256. Shukti (Oyster Shell) Maarana
257. Shankh (Conch Shell) Maarana
258. Mriga shringa (Stag horn) Maarana
259. Godanti (Gypsum) Maarana
260. Kukkutanda twak (Hen's Egg Shell) Maarana.
261. Important formulations of Kaparda (Cowries)
262. Important formulations of Shukti (Oyster Shell)
263. Important formulations of Shankh (Conch Shell)
264. Important formulations of Mriga shringa (Stag horn)
265. Properties, dose, anupan and therapeutic uses of Kaparda (Cowries)
266. Properties, dose, anupan and therapeutic uses of Shukti (Oyster Shell)
267. Properties, dose, anupan and therapeutic uses of Shankh (Conch Shell)
268. Properties, dose, anupan and therapeutic uses of Mriga shringa (Stag horn)
269. Properties, dose, anupan and therapeutic uses of Khatika
270. Properties, dose, anupan and therapeutic uses of Godanti (Gypsum)
271. Properties, dose, anupan and therapeutic uses of Samudraphena (Cattle Fish bone)
272. Properties, dose, anupan and therapeutic uses of Kukkutanda twak (Hen's Egg Shell).

## POINT 8

### RASA SHASHTRA

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**Sikata varga - Sikata (Silica), Dugdhapashana (Talc), Nagapashana / Jaharmohara (Serpentine), Badarshama (silicate of lime ), Vyomashma (Sangeyashab - Jade), Kousheyashma (Asbestos) and Akika (Agate).**

120. Briefly explain the Sikta Varga

**2marks:**

273. Dugdhapashana (Talc)
274. Nagapashana / Jaharmohara (Serpentine)
275. Badarshama (silicate of lime )
276. Vyomashma (Sangeyashab - Jade)
277. Kousheyashma (Asbestos)

- 278. Akika (Agate).
- 279. Properties, dose, anupan and therapeutic uses of Sikata (Silica)
- 280. Properties, dose, anupan and therapeutic uses of Dugdhapashana (Talc)
- 281. Properties, dose, anupan and therapeutic uses of Nagapashana / Jaharmohara (Serpentine)
- 282. Properties, dose, anupan and therapeutic uses of Badarshama (silicate of lime)
- 283. Properties, dose, anupan and therapeutic uses of Vyomashma (Sangeyashab - Jade)
- 284. Properties, dose, anupan and therapeutic uses of Kousheyashma (Asbestos)
- 285. Properties, dose, anupan and therapeutic uses of Akika (Agate).

## POINT 9

### RASA SHASHTRA

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**Kshara varga - Sarja kshara (Sodium bicarbonate), Yava kshara, Tankana kshara (Borax), Surya Kshara (Potassium Nitrate).**

10 marks:

1. Briefly explain the Kshara varga
2. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Sarja kshara (Sodium bicarbonate) and Yava kshara.
3. Briefly describe the properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of Tankana kshara (Borax) and Surya Kshara (Potassium Nitrate).

5 marks:

- 121. Describe the therapeutic dose and uses of Sarja kshara (Sodium bicarbonate)
- 122. Describe the Marana, therapeutic dose and uses of Yava kshara
- 123. Describe the Marana, therapeutic dose and uses of Tankana kshara (Borax)

2 marks:

- 286. Sarja kshara (Sodium bicarbonate)
- 287. Yava kshara

288. Tankana kshara (Borax)
289. Surya Kshara (Potassium Nitrate).
290. Sarja kshara nirmana vidhi (Sodium bicarbonate)
291. Yava kshara Nirmana vidhi
292. Tankana kshara (Borax) Nirmana vidhi
293. Uses of Surya Kshara (Potassium Nitrate).
294. Properties, dose, anupan and therapeutic uses of Sarja kshara (Sodium bicarbonate)
295. Properties, dose, anupan and therapeutic uses of Yava kshara
296. Properties, dose, anupan and therapeutic uses of Tankana kshara (Borax)
297. Properties, dose, anupan and therapeutic uses of Surya Kshara (Potassium Nitrate).

## POINT 10

### RASA SHASHTRA

**Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:**

**Miscellaneous - Mandura, Bola, Dam-ul Akhawayan (Raktabandhini), Kasturi, Bhoonag, Mayurpiccha, Sarjarasa, Madhoochishta.**

### 2 marks:

1. Mandura Bola
2. Dam-ul Akhawayan (Raktabandhini)
3. Kasturi
4. Bhoonag
5. Mayurpiccha
6. Sarjarasa
7. Madhoochishta
8. Uses of Dam-ul Akhawayan (Raktabandhini)
9. Kasturi vinishchaya
10. Bhoonag satvapatana
11. Mayurpiccha bhasma
12. Sarjarasa malham
13. Madhoochishta uses
14. Properties, dose, anupan and therapeutic uses of Mandura Bola
15. Properties, dose, anupan and therapeutic uses of Dam-ul Akhawayan (Raktabandhini)
16. Properties, dose, anupan and therapeutic uses of Kasturi
17. Properties, dose, anupan and therapeutic uses of Bhoonag
18. Properties, dose, anupan and therapeutic uses of Mayurpiccha

19. Properties, dose, anupan and therapeutic uses of Sarjarasa
20. Properties, dose, anupan and therapeutic uses of Madhoochishta.

#### **POINT 11**

**Visha and Upavisha-Introduction, collection and storage, classification, synonyms, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of following Visha and Upavisha-Vatsanabha, Kuchala, Jayapala, Dhattura, Bhanga, Bhallataka, Gunja, Arka, Snuhi. Langali, Karaveera, Ahiphena and Chitrakmool.**

#### **10 marks:**

121. Briefly explain the Visha-upvisha varga
122. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Vatsanabha
123. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Kuchala,
124. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Jayapala
125. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Dhattura
126. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Bhanga
127. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Bhallataka
128. Briefly explain the collection and storage, Shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Gunja
129. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Arka
130. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Snuhi
131. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Langali,
132. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Karaveera
133. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Ahiphena
134. Briefly explain the collection and storage, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Chitrakmool.

#### **5 marks:**

124. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Vatsanabha,

125. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Kuchala,
126. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Jayapala
127. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Dhattura
128. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Bhanga
129. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Bhallataka
130. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Gunja
131. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Arka
132. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Snuhi.
133. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Langali,
134. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Karaveera
135. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Ahiphena
136. Describe the Ashuddha, and Avidhee Sevanjanya Dosha, therapeutic and toxic doses, antidote and Shodhana of Chitrakmool
137. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Vatsanabha,
138. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Kuchala
139. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Jayapala
140. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Dhattura
141. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Bhanga
142. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Bhallataka
143. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Gunja
144. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Ahiphena
145. Describe the therapeutic and toxic doses, anupan, therapeutic uses, and formulations of Chitrakmool.

**2marks:**

298. Visha
299. Upavisha
300. upvisha classification,
301. Vatsanabha,
302. Kuchala,
303. Jayapala
304. Dhattura,
305. Bhang,
306. Bhallataka,
307. Gunja,
308. Arka,
309. Snuhi
310. Langali
311. Karaveera
312. Ahiphena
313. Chitrakmool.
314. Vatsanabha Shodhana
315. Kuchala Shodhana
316. Jayapala Shodhana
317. Dhattura Shodhana
318. Bhang Shodhana
319. Bhallataka Shodhana
320. Gunja Shodhana
321. Arka Shodhana
322. Snuhi Shodhana
323. Langali Shodhana
324. Karaveera Shodhana
325. Ahiphena Shodhana
326. Visha uses
327. Upavisha uses
328. Vatsanabha uses,
329. Kuchala uses
330. Jayapala uses
331. Dhattura uses
332. Bhang uses
333. Bhallataka uses
334. Gunja uses
335. Arka uses
336. Snuhi uses
337. Langali uses
338. Karaveera uses
339. Ahiphena uses
340. Chitrakmool uses
341. Properties, dose, anupan and therapeutic uses of Vatsanabha,
342. Properties, dose, anupan and therapeutic uses of Kuchala,

343. Properties, dose, anupan and therapeutic uses of Jayapala,
344. Properties, dose, anupan and therapeutic uses of Dhattura,
345. Properties, dose, anupan and therapeutic uses of Bhanga,
346. Properties, dose, anupan and therapeutic uses of Bhallataka,
347. Properties, dose, anupan and therapeutic uses of Gunja,
348. Properties, dose, anupan and therapeutic uses of Arka,
349. Properties, dose, anupan and therapeutic uses of Snuhi.
350. Properties, dose, anupan and therapeutic uses of Langali,
351. Properties, dose, anupan and therapeutic uses of Karaveera,
352. Properties, dose, anupan and therapeutic uses of Ahiphena
353. Properties, dose, anupan and therapeutic uses of Chitrakmool.
- 354.

## POINT 12

**Aushadhi Yoga Gyanam- ingredients, manufacturing process, and beshajprayogvidhi. Arogya Vardhini Gutika, Kasturibhairava Rasa, Kumara Kalyana Rasa, Garbhapala Rasa, Chandraprabha Vati, Chandramrita Rasa, Pratapalankeshwara Rasa, Pravalapanchamrita Rasa, Anandbhairava Rasa, Yogendra Rasa, Laxmivilas Rasa, Vasantakusumakara, Vasantamalati Rasa, Brihat Vata Chintamani Rasa, Shankha vati, Shwaskuthara Rasa, Hinguleswara Rasa, Hemagarbhapottali, Hridyarnava Rasa, Swarnavanga, Makaradhwaja, Putapakwavaisham Jwarantaka Loha, Vatvidhvamsan Rasa, Kamadugha Rasa, Laghusutshekhar Rasa, Navayasa Loha, Saptamrita Loha, Tamra Parpati, Panchamrita Parpati, Sveta Parpati.**

### 10 marks:

135. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Arogya Vardhini Gutika
136. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Kasturibhairava Rasa
137. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Kumara Kalyana Rasa
138. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Garbhapala Rasa
139. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Chandraprabha Vati
140. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Chandramrita Rasa
141. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Pratapalankeshwara Rasa
142. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Pravalapanchamrita Rasa
143. Briefly explain the ingredients, manufacturing process, and beshajprayogvidhi of Anandbhairava Rasa

144. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Yogendra Rasa
145. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Laxmivilas Rasa
146. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Vasantakusumakara
147. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Vasantamalati Rasa
148. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Brihat Vata Chintamani Rasa
149. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Shankha vati
150. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Shwaskuthara Rasa
151. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Hinguleswara Rasa
152. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Hemagarbhapottali
153. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Hridyarnava Rasa
154. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Swarnavanga
155. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Makaradhwaaja
156. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Putapakwavaisham Jwarantaka Loha
157. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Vatvidhvamsan Rasa
158. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Kamadugha Rasa
159. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Laghusutshekhar Rasa
160. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Navayasa Loha,
161. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Saptamrita Loha
162. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Tamra Parpati
163. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Panchamrita Parpati
164. Briefly explain the ingredients, manufacturing process, and bhashajprayogvidhi of Sveta Parpati.

**2 marks:**

355. Arogya Vardhini Gutika,

356. Kasturibhairava Rasa,
357. Kumara Kalyana Rasa,
358. Garbhapala Rasa,
359. Chandraprabha Vati,
360. Chandramrita Rasa,
361. Pratapalankeshwara Rasa,
362. Pravalapanchamrita Rasa,
363. Anandbhairava Rasa,
364. Yogendra Rasa,
365. Laxmivilas Rasa,
366. Vasantakusumakara,
367. Vasantamalati Rasa,
368. Brihat Vata Chintamani Rasa,
369. Shankha vati,
370. Shwaskuthara Rasa,
371. Hinguleswara Rasa,
372. Hemagarbhapottali,
373. Hridyarnava Rasa,
374. Swarnavanga,
375. Makaradhwaja,
376. Putapakwavaisham Jwarantaka Loha,
377. Vatvidhvamsan Rasa,
378. Kamadugha Rasa,
379. Laghusutshekhar Rasa,
380. Navayasa Loha,
381. Saptamrita Loha,
382. Tamra Parpati,
383. Panchamrita Parpati,
384. Sveta Parpati.
385. Therapeutic uses of Arogya Vardhini Gutika,
386. Therapeutic uses of Kasturibhairava Rasa,
387. Therapeutic uses of Kumara Kalyana Rasa,
388. Therapeutic uses of Garbhapala Rasa,
389. Therapeutic uses of Chandraprabha Vati,
390. Therapeutic uses of Chandramrita Rasa,
391. Therapeutic uses of Pratapalankeshwara Rasa,
392. Therapeutic uses of Pravalapanchamrita Rasa,
393. Therapeutic uses of Anandbhairava Rasa,
394. Therapeutic uses of Yogendra Rasa,
395. Therapeutic uses of Laxmivilas Rasa,
396. Therapeutic uses of Vasantakusumakara,
397. Therapeutic uses of Vasantamalati Rasa,
398. Therapeutic uses of Brihat Vata Chintamani Rasa,
399. Therapeutic uses of Shankha vati,
400. Therapeutic uses of Shwaskuthara Rasa,

401. Therapeutic uses of Hinguleswara Rasa,
402. Therapeutic uses of Hemagarbhapottali,
403. Therapeutic uses of Hridyarnava Rasa,
404. Therapeutic uses of Swarnavanga,
405. Therapeutic uses of Makaradhwaja,
406. Therapeutic uses of Putapakwavaisham Jwarantaka Loha,
407. Therapeutic uses of Vatvidhvamsan Rasa,
408. Therapeutic uses of Kamadugha Rasa,
409. Therapeutic uses of Laghusutshekhar Rasa,
410. Therapeutic uses of Navayasa Loha,
411. Therapeutic uses of Saptamrita Loha,
412. Therapeutic uses of Tamra Parpati,
413. Therapeutic uses of Panchamrita Parpati,
414. Therapeutic uses of Sveta Parpati.
415. Ingredients and manufacturing process of Arogya Vardhini Gutika,
416. Ingredients and manufacturing process of Kasturibhairava Rasa,
417. Ingredients and manufacturing process of Kumara Kalyana Rasa,
418. Ingredients and manufacturing process of Garbhapala Rasa,
419. Ingredients and manufacturing process of Chandraprabha Vati,
420. Ingredients and manufacturing process of Chandramrita Rasa,
421. Ingredients and manufacturing process of Pratapalankeshwara Rasa,
422. Ingredients and manufacturing process of Pravalapanchamrita Rasa,
423. Ingredients and manufacturing process of Anandbhairava Rasa,
424. Ingredients and manufacturing process of Yogendra Rasa,
425. Ingredients and manufacturing process of Laxmivilas Rasa,
426. Ingredients and manufacturing process of Vasantakusumakara,
427. Ingredients and manufacturing process of Vasantamalati Rasa,
428. Ingredients and manufacturing process of Brihat Vata Chintamani Rasa,
429. Ingredients and manufacturing process of Shankha vati,
430. Ingredients and manufacturing process of Shwaskuthara Rasa,
431. Ingredients and manufacturing process of Hinguleswara Rasa,
432. Ingredients and manufacturing process of Hemagarbhapottali,
433. Ingredients and manufacturing process of Hridyarnava Rasa,
434. Ingredients and manufacturing process of Swarnavanga,
435. Ingredients and manufacturing process of Makaradhwaja,
436. Ingredients and manufacturing process of Putapakwavaisham Jwarantaka Loha,
437. Ingredients and manufacturing process of Vatvidhvamsan Rasa,
438. Ingredients and manufacturing process of Kamadugha Rasa,
439. Ingredients and manufacturing process of Laghusutshekhar Rasa,
440. Ingredients and manufacturing process of Navayasa Loha,
441. Ingredients and manufacturing process of Saptamrita Loha,
442. Ingredients and manufacturing process of Tamra Parpati,
443. Ingredients and manufacturing process of Panchamrita Parpati,
444. Ingredients and manufacturing process of Sveta Parpati.
445. Properties, dose, anupan and therapeutic uses of Arogya Vardhini Gutika,

446. Properties, dose, anupan and therapeutic uses of Kasturibhairava Rasa,  
 447. Properties, dose, anupan and therapeutic uses of Kumara Kalyana Rasa,  
 448. Properties, dose, anupan and therapeutic uses of Garbhapala Rasa,  
 449. Properties, dose, anupan and therapeutic uses of Chandraprabha Vati,  
 450. Properties, dose, anupan and therapeutic uses of Chandramrita Rasa,  
 451. Properties, dose, anupan and therapeutic uses of Pratapalankeshwara Rasa,  
 452. Properties, dose, anupan and therapeutic uses of Pravalapanchamrita Rasa,  
 453. Properties, dose, anupan and therapeutic uses of Anandbhairava Rasa,  
 454. Properties, dose, anupan and therapeutic uses of Yogendra Rasa,  
 455. Properties, dose, anupan and therapeutic uses of Laxmivilas Rasa,  
 456. Properties, dose, anupan and therapeutic uses of Vasantakusumakara,  
 457. Properties, dose, anupan and therapeutic uses of Vasantamalati Rasa,  
 458. Properties, dose, anupan and therapeutic uses of Brihat Vata Chintamani Rasa,  
 459. Properties, dose, anupan and therapeutic uses of Shankha vati,  
 460. Properties, dose, anupan and therapeutic uses of Shwaskuthara Rasa,  
 461. Properties, dose, anupan and therapeutic uses of Hinguleswara Rasa,  
 462. Properties, dose, anupan and therapeutic uses of Hemagarbhapottali,  
 463. Properties, dose, anupan and therapeutic uses of Hridyarnava Rasa,  
 464. Properties, dose, anupan and therapeutic uses of Swarnavanga,  
 465. Properties, dose, anupan and therapeutic uses of Makaradhwaja,  
 466. Properties, dose, anupan and therapeutic uses of Putapakwavaisham Jwarantaka  
 Loha,  
 467. Properties, dose, anupan and therapeutic uses of Vatvidhvamsan Rasa,  
 468. Properties, dose, anupan and therapeutic uses of Kamadugha Rasa,  
 469. Properties, dose, anupan and therapeutic uses of Laghusutshekhar Rasa,  
 470. Properties, dose, anupan and therapeutic uses of Navayasa Loha,  
 471. Properties, dose, anupan and therapeutic uses of Saptamrita Loha,  
 472. Properties, dose, anupan and therapeutic uses of Tamra Parpati,  
 473. Properties, dose, anupan and therapeutic uses of Panchamrita Parpati,  
 474. Properties, dose, anupan and therapeutic uses of Sveta Parpati.

### POINT 13

**Introduction to pharamcovigilance and its status in India, with reference to Ayurvedic drugs.**

**10 marks question**

1. **What is Pharmacovigilance and its status in India with reference to Ayurvedi drugs**
2. **What is the procedure to register adverse drug reaction of Ayurvedic drugs. Describe briefly.**
3. **Discuss the possible adverse drug reactions of Rasaushadhis in detail**

**5 marks**

1. What is pharmacovigilance
2. How to report adverse drug reaction of Ayurved drugs
3. Possible ADRs of Ayurved drugs
4. Precautions to be taken while using mercurial preparations

2 marks

1. National pharmacovigilance program
  2. Status of pharmacovigilance program of Ayurveda
  3. Advere drug reaction
  4. Adverse event
  5. Side effect
  6. Role of anupan and sahpaan
1. Complete the verse and Explain it: तैले तत्रे गवाम मुत्रे .....
  2. Complete the verse and Explain it : स्वर्णं चम्पक वर्णाभं .....
  3. Explain it : सुश्लक्षण कज्जलाभो कज्जली इति अभिधीयते
  4. Explain it : न विषम विषमितियाहू ताम्रं च विषमुच्यते
  5. Explain it : सुश्लक्षण कज्जलाभो कज्जली इति अभिधीयते
  6. Explain it : रत्नानाम शोधनं श्रेष्ठं मारणं न गुणप्रदम्
  7. Explain it : पक्वाबिम्बफलं छायेन वृतायतं वक्रकम्  
स्निग्धं व्रणकं स्थूलं प्रवालं सप्तधा शुभम्