

**KULABA (2012 COURSE): SUMMER – 2016**  
**SUBJECT : PAPARE – I: RASASHASTRA**

Day : Monday  
Date : 06/06/2016

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks,
- 3) Answers will be valued as **WHOLE**.

**Long Essay Questions:**

Attempt **ANY THREE** of the following: (3 × 20 = 60 Marks)

- Q.1 Write essay on History and Chronological evolution of Rasashastra. [20]
- Q.2 Elaborate contribution of Rasaratna Samuchchaya and Rasatarangini texts in Ayurvedic pharmaceuticals. [20]
- Q.3 Elaborate the concept of Kupipakwa Rasayan. Explain its stepwise methods of preparation and standardization parameters in detail. [20]
- Q.4 Write essay on Quality Control of Raw drugs in Rasashastra (Grahya-Agrahyattva). Elaborate with examples. [20]

**Short Essay Questions:**

Write **ANY TWO** of the following: (2 × 10 = 20 Marks)

- Q.5 Describe ancient and contemporary techniques of size reduction and separation. [10]
- Q.6 Write on significance of different Putas in relation to Bhasmikanana. [10]
- Q.7 Write classification of Dhatu Varga. Explain in detail about source, identification, Dosha, Shodhan, Maran, therapeutic uses and Kalpas of "Tamra". [10]

Write short notes on **ANY FOUR** of the following: (4 × 5 = 20 Marks)

- Q.8 Gandhak Druti – Preparation and uses [05]
- Q.9 Jarana of Vanga [05]
- Q.10 SOP of Rasa Pottali [05]
- Q.11 Jaharmohara Pishti – Preparation method and uses [05]
- Q.12 Shankha Drava – Nirman and testing parameter [05]

**KULABA (2012 COURSE): SUMMER – 2016**  
**SUBJECT : PAPER – II: BHAISHAJYA KALPANA**

Day : Tuesday  
Date : 07/06/2016

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks,
- 3) Answers will be valued as **WHOLE**.

**Long Essay Questions:**

Attempt **ANY THREE** of the following: (3 × 20 = 60 Marks)

- Q.1 Elaborate fundamental principles of Bhaishajya Kalpana with suitable examples. [20]
- Q.2 Explain importance of "Aushadha Matra". Elaborate in relevance to Posology. [20]
- Q.3 Write in detail about manufacturing, standardization, shelf life and Karmukata of Sneha-Kalpana with examples. [20]
- Q.4 Write Gutivati Kalpana with the help of following points: General ingredients, specific preparation methods and testing parameters. [20]  
Compare traditional and modern techniques used to formulate this dosage form.

**Short Essay Questions:**

Write **ANY TWO** of the following: (2 × 10 = 20 Marks)

- Q.5 Differentiate between Kshar and Lavan Kalpana. Write in detail about this Kalpana in relation to raw drugs used upto pharmacological activities with suitable examples. [10]
- Q.6 Describe filtration techniques and its importance in ayurvedic pharmaceutics. [10]
- Q.7 Elaborate the concept of dietary supplements and different food articles used in ayurvedic practice. [10]

Write short notes on **ANY FOUR** of the following: (4 × 5 = 20 Marks)

- Q.8 Kshirapaka Kalpana [05]
- Q.9 Any two Kalpana used in Netrachikitsa [05]
- Q.10 Good collection and Laboratory practices (GCP & GLP) [05]
- Q.11 Sandhan Kalpa Karmukata [05]
- Q.12 Define Creams and Ointments [05]

**KULABA: (2012 COURSE): SUMMER – 2016**  
**SUBJECT: PAPER – III: RASA CHIKITSA AND AUSHADHA YOGA VIGYANA**

Day: Thursday  
Date: 09/06/2016

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers will be valued as a **WHOLE**.

**Long Answer Questions: ( Any THREE out of FOUR) ( 3 x 20 = 60 Marks)**

- Q.1** Write formulation design, composition, therapeutic uses and probable mode of action of following drugs (20)  
i) Gandhak- Rasayan                      ii) Rasa- Karpoora  
iii) Suvarnaraj Vangeshwara              iv) Praval- Panchamnita
- Q.2** Explain Pathabheda? Why does such change occur? Elaborate with the example of Chyavanprashavleha (20)
- Q.3** Write path-samyojana , method of preparation and uses of (20)  
i) Samshamanivati                      ii) Haridra khanda paka  
iii) Simhanada Gugglulu                iv) Pinda taila
- Q.4** Explain formulation designing of Asava and Arishta. Write ingredients and uses of (20)  
i) Draksharishta                      ii) Takrarishta

**Short Answer Questions ( Any TWO out of THREE) ( 2 x 10 = 20 marks)**

- Q.5** Describe composition and probable mode of action of: (10)  
i) Hingwastak choorna                ii) Lavana Bhaskar choorna
- Q.6** Elaborate significance of Bsheshaja Siddha Ahara Kalpana. Write importance of Yavagu and Yusha in ayurvedic clinical practice. (10)
- Q.7** Write Aushadhi patha,dose, anupan, and uses of: (10)  
i) Shwet Parpati                      ii) Lokanath Pottali Rasa

**Short notes (Any FOUR out of FIVE) ( 4 x 5 = 20 marks)**

- Q.8** Kshetrikaran (05)
- Q.9** Ingredients with ratio and two therapeutic uses of Jatyadi Ghrita (05)
- Q.10** Differentiate between Rasa and Panchamritta Parapati (05)
- Q.11** Taila Murchhana (05)

**KULABA: (2012 COURSE): SUMMER – 2016**  
**SUBJECT: PAPER – IV: PHARMACOLOGY AND PHARMACY MANGEMENT**

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Day: Friday  
Date: 10/06/2016

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers will be valued as a **WHOLE**.
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**Long Answer Questions: ( Any THREE out of FOUR) ( 3 x 20 = 60 Marks)**

- Q.1** Describe in detail about Pharmacovigilance of ayurvedic drugs. How it is important for Ayurvedic physician and patient. (20)
- Q.2** Elaborate on various routes of drug administration. Mention the advantages and disadvantages of each route. (20)
- Q.3** Describe packaging materials and labeling with its importance in pharmaceutical industry (20)
- Q.4** Write about Ayurvedic Pharmacopiea and Ayurvedic Formulary of India (20)

**Short Answer Questions ( Any TWO out of THREE) ( 2 x 10 = 20 marks)**

- Q.5** Pre-clinical efficacy studies with two examples of Ayurvedic drugs. (10)
- Q.6** Intellectual property rights with reference to Ayurvedic products. (10)
- Q.7** TKDL. (10)

**Short notes (Any FOUR out of FIVE) ( 4 x 5 = 20 marks)**

- Q.8** Community Pharmacy (05)
- Q.9** Subacute toxicity study (05)
- Q.10** Phase – II Clinical Trial (05)
- Q.11** Concept of adverse drug effects (05)
- Q.12** Dose determination of Ayurvedic formulations for animal studies (05)

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**RAVI – (2012 COURSE) (COMMON FOR ALL BRANCHES) : SUMMER-2016**  
**SUBJECT : PAPER – I : RESEARCH METHODOLOGY AND BIO / MEDICAL**  
**STATISTICS**

Day : Monday  
Date : 06/06/2016

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**N.B. :**

- 1) Use **SEPARATE** answer sheets for each section.
- 2) Draw neat diagrams **WHEREVER** necessary.

**SECTION - A**

**Long answer questions (LAQ) 2 x 15 = 30 Marks :**

Write **Any TWO** long questions out of **THREE** :

- Q.1** Write in details about ancient and advance methodology for Drug Research. (15)
- Q.2** Describe different methods of literature review with advantages and limitations. (15)
- Q.3** Explain importance and methods of fundamental research with examples. (15)

**Short notes 6 x 5 = 30 Marks :**

- Q.4** Write **Any SIX** short notes out of **SEVEN** : (30)
- a) Phase IV clinical trail
  - b) Importance of pharmacovigilance
  - c) Bibliography writing methods
  - d) Retrospective studies
  - e) Importance of Survey study
  - f) Network physiology
  - g) Tantrayukti and Research

**SECTION -B**

**Long answer questions (LAQ) 2 x 15 = 30 Marks :**

Write **Any TWO** long questions out of **THREE** :

- Q.1** The following data gives the values of acidic reactions of solution (pH test). Test whether there is a significant difference between 2 groups. (15)
- |         |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|
| Group A | 7   | 7.8 | 7.9 | 8   | 7.6 | 7.4 |
| Group B | 6.8 | 7.4 | 7   | 7.2 | 7.4 | 6.7 |
- (Where  $t_g = 2.262$ )
- Q.2** What is sampling, explain random and non random sampling in details. (15)
- Q.3** Explain nonparametric tests and write down any one test with illustration. (15)

**Short notes 2 x 5 = 10 Marks :**

- Q.4** Write **Any TWO** short notes out of **THREE** : (10)
- a) Prevalence
  - b) Standard error
  - c) Types of variables
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**RAVI - I (2012 COURSE) (COMMON FOR ALL BRANCHES) : WINTER - 2016**  
**SUBJECT : PAPER – I : RESEARCH METHODOLOGY AND BIO / MEDICAL STATISTICS**

Day : Monday  
Date : 28/11/2016

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**N.B. :**

- 1) Use **SEPARATE** answer sheets for each section.
- 2) Draw neat diagrams **WHEREVER** necessary.

**SECTION - A**

**Long answer questions (LAQ) 2 x 15 = 30 Marks :**

Write **Any TWO** long questions out of **THREE** :

- Q.1** Write definition of research and describe in detail the principles and methods of toxicity study. (15)
- Q.2** Write in detail about cohort study and randomized controlled trials and their types with examples. (15)
- Q.3** Write about different types of referencing and bibliography. (15)

**Short notes 6 x 5 = 30 Marks :**

- Q.4** Write **Any SIX** short notes out of **SEVEN** : (30)
- a) Hypothesis formation
  - b) Importance of Animal study
  - c) Concepts of system biology
  - d) Application of yukti praman in research
  - e) Process of Drug discovery
  - f) Types of survey study
  - g) Importance of good manufacturing practices

**SECTION - B**

**Long answer questions (LAQ) 2 x 15 = 30 Marks :**

Write **Any TWO** long questions out of **THREE** :

- Q.1** Write concepts, relevance and general applications of biostatistics in Ayurved. (15)
- Q.2** Write definition, types and laws of probability. (15)
- Q.3** Following data shown effect of Ajamoda (*Carum roxburghianum*) churna on weight of children in intestinal nematodes. (15)  
Check this significantly effective or not ( $t_g = 2.306$ )
- |           |    |    |    |    |    |    |    |    |    |
|-----------|----|----|----|----|----|----|----|----|----|
| Weight BT | 20 | 18 | 19 | 18 | 23 | 30 | 25 | 26 | 25 |
| Weight AT | 23 | 21 | 19 | 19 | 25 | 30 | 26 | 27 | 24 |

**Short notes 2 x 5 = 10 Marks :**

- Q.4** Write **Any TWO** short notes out of **THREE** : (10)
- a) Statistical software
  - b) Inclusive and exclusive classification
  - c) P value
- \* \* \* \* \*

**RAVI- (2012 COURSE): SUMMER 2016**  
**SUBJECT: PAPER-II: RASA SHASTRA & BHAISHAJYA KALPANA**

Day: Wednesday  
Date: 08/06/2016

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMUPULSORY**.
- 2) Use **SAME** answer sheets for each section.
- 3) Draw neat diagrams **WHEREVER** necessary.

**SECTION-A**

**Long Answer Questions (LAQ) 2 x 15 = 30 marks. (15)**

- Q.1** Explain the importance of kala and yukti in formulation development of Ayurvedic medicine with appropriate examples. (15)
- Q.2** Differentiate between Mardan and Bhavana. Write their significance in Ayurvedic pharmaceuticals with suitable examples. (15)

**Short Answer Questions (SAQ) 1 x 10 =10 marks.**

- Q.3** What is GMP? How it is applicable to Ayurvedic pharmacy. (10)

**Short notes 2 x 5 = 10 marks**

- Q.4** Write any **TWO** short notes out of **THREE**: (10)
- 1) Classification of Rasa dravya.
  - 2) Aushadha sevan kal according to sharangdhar samhita.
  - 3) Bhasma pariksha.

**SECTION- B**

**Long Answer Questions (LAQ) 2 x 15 = 30 marks.**

- Q.5** Discuss about Toxicity study for Ayurvedic formulation. (15)
- Q.6** What is meant by pre-clinical studies? Write it's relevance for assessment of Ayurvedic formulations. (15)

**Short Answer Questions (SAQ) 1 x 10 =10 marks.**

- Q.7** Write laboratory analytical testing methods used for standardization of 'Sneha Siddha' formulation. (10)

**Short notes 2 x 5 = 10 marks**

- Q.8** Write any **TWO** short notes out of **THREE**: (10)
- 1) Concept of New drug development.
  - 2) HPTLC
  - 3) Database of medicinal plants

