

**SADASHIVGAD (2012 COURSE) : SUMMER-2016**  
**SUBJECT : PAPER – I : DOSHA DHATU MALA VIGYAN**

Day : Monday  
Date : 06/06/2016

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

**N.B. :**

- 1) Draw neat diagrams **WHEREVER** necessary.

**Long answer questions Any Three out of Four : (3 x 20 = 60 Marks)**

- Q.1** Explain the functions of Pitta Dosha and Agni Pitta Bhedabhedha in detail.  
**Q.2** Describe Kapha Dosha in detail with its applied concept in maintenance in health.  
**Q.3** Explain the process of nourishment of Dhatu with the help of various theories of 'Dhatu Poshana'  
**Q.4** Describe the concept of 'Mutra' in detail as Ahar Mala.

**Short answer questions Any Two out of Three : (2 x 10 = 20 Marks)**

- Q.5** Describe 'Asthi' Dhatu with its Kshaya Vriddhi Laxanani and Sarata.  
**Q.6** State principles of 'Samanya Vishesh Siddhanta'.  
**Q.7** Describe 'Vata' Dosha with its functions, properties and Kshaya Vriddhi Laxanani.

**Write short notes Any Four out of Five : (4 x 5 = 20 Marks)**

- Q.8** Features of Meda and Majja Dhatu Kshaya  
**Q.9** Role of Doshas in Health and disease  
**Q.10** Shukravaha Strotas- Sthana, Karma  
**Q.11** Classification of 'Bala'  
**Q.12** Ojas- types and functions

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**SADASHIVGAD (2012 COURSE) : SUMMER-2016**  
**SUBJECT : PAPER – II : PRAKRITI EVAM SATTVA VIGYAN**

Day : Tuesday  
Date : 07/06/2016

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

**N.B. :**

- 1) Draw neat diagrams **WHEREVER** necessary.

**Long answer questions Any Three out of Four : (3 x 20 = 60 Marks)**

- Q.1** Write in detail about characteristic features of individuals belonging to 'Kapha Prakriti'.
- Q.2** Explain 'Shravanendriya' along with Physiology of perception of 'Shabda' with modern concept.
- Q.3** Write in detail about Manas with the help of following points- Definition, location, properties, functions and objects.
- Q.4** Write in detail about characteristic features of 'Tamas Prakriti' along with its types and practical implications.

**Short answer questions Any Two out of Three : (2 x 10 = 20 Marks)**

- Q.5** Describe 'Physiology of Intelligence, Memory.
- Q.6** Indriya Panchapanchak
- Q.7** Swapnotpati and Swapnabheda

**Write short notes Any Four out of Five : (4 x 5 = 20 Marks)**

- Q.8** Physiology of speech
- Q.9** Properties of Sattavik Bhav and its effect on mind
- Q.10** Physiology of perception of 'Gandha'
- Q.11** Classification of 'Deha Prakriti'
- Q.12** Properties of 'Aatma'

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**SADASHIVGAD (2012 COURSE) : SUMMER-2016**  
**SUBJECT : PAPER – III : KOSTHANGA KRIYA VIGYAN**

Day : Thursday  
Date : 09/06/2016

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

**N.B. :**

- 1) Draw neat diagrams **WHEREVER** necessary.

**Long answer questions Any Three out of Four : (3 x 20 = 60 Marks)**

- Q.1** Explain Ashta Ahar Vidhi Visheshayatan and its applied aspect in todays lifestyle.  
**Q.2** Write in detail the concept of Agni and its importance with applied aspect.  
**Q.3** Describe in detail about structure and functions of liver.  
**Q.4** Write in detail 'Ahar Pachan Prakriya' according to Ayurveda.

**Short answer questions Any Two out of Three : (2 x 10 = 20 Marks)**

- Q.5** Describe the process of deglutition.  
**Q.6** Describe the process involved in Carbohydrate metabolism.  
**Q.7** Write the sources, daily requirement and functions of vitamin C.

**Write short notes Any Four out of Five : (4 x 5 = 20 Marks)**

- Q.8** Peristalsis  
**Q.9** Functions of pancreas  
**Q.10** Sar Kitta Vibhajana  
**Q.11** Histology of small intestine  
**Q.12** Salivary glands and Saliva

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**SADASHIVGAD (2012 COURSE) : SUMMER-2016**  
**SUBJECT : PAPER – IV : MODERN PHYSIOLOGY AND ITS APPLIED ASPECT**

Day : Friday  
Date : 10/06/2016

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

**N.B. :**

- 1) Draw neat diagrams **WHEREVER** necessary.

**Long answer questions Any Three out of Four : (3 x 20 = 60 Marks)**

- Q.1** Describe physiology of Adrenal gland along with the effects of hypo and hyper secretions of its various hormones.
- Q.2** Write in detail about male reproductive system.
- Q.3** Explain the mechanism of exchange and transportation of gases in respiration.
- Q.4** Describe the functional anatomy of urinary tract and explain the mechanism of urine formation.

**Short answer questions Any Two out of Three : (2 x 10 = 20 Marks)**

- Q.5** Write down the stages of development of RBCs.
- Q.6** Define Homeostasis and explain the mechanism of Homeostasis.
- Q.7** Write the histology and functions of spinal cord.

**Write short notes Any Four out of Five : (4 x 5 = 20 Marks)**

- Q.8** Functions of cerebral cortex
- Q.9** Pulmonary function test
- Q.10** Mechanism of blood clotting
- Q.11** Features of hypothyroidism
- Q.12** Anemia

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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
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**RAVI (2012 COURSE): SUMMER-2016**  
**SUBJECT: PAPER-II: KRIYA SHARIR**

**Day:** Wednesday  
**Date:** 08/06/2016

**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) Use **SEPARATE** answer sheet for both sections.
- 4) Draw neat diagrams **WHEREVER** necessary.

**SECTION-A**

**Long answer questions (LAQ) 2 X 15 = 30 marks.**

**Q.1** Write definition of prakruti and explain pitta prakruti in detail. **(15)**

**Q.2** Write definition, paryay of srotas and explain Rasavaha srotas in detail. **(15)**

**Short answer questions (SAQ) 1 x 10 = 10 marks.**

**Q.3** Explain Ashtaaaharvidhivishesha Aaytane. **(10)**

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

**Q.4** Write any **TWO** short notes out of following: **(10)**

- a) Functions of Vata dosha
- b) Sarta of Mamsa dhatu
- c) Samanya Vishesha siddhant

**SECTION-B**

**Long answer questions (LAQ) 2 X 15 = 30 marks.**

**Q.5** Describe Adrenal gland in detail. **(15)**

**Q.6** Explain Cardiac Cycle, regulation of heart rate and blood pressure. **(15)**

**Short answer questions (SAQ) 1 x 10 = 10 marks.**

**Q.7** Explain Immunity in detail. **(10)**

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

**Q.8** Write any **TWO** short notes out of following: **(10)**

- a) Ovarian Hormones
- b) Spinal Cord
- c) Pancreas

