

[Total No. of Questions - 5] [Total No. of Printed Pages - 2]  
(2066)

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- 0 DEC 2016

**B. Pharmacy (Ayurveda) 1st Semester Examination**  
**Fundamentals of Anatomy & Physiology (CBS)**  
**BPA-102**

**Time : 3 Hours**

**Max. Marks : 60**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

- Note :** (i) Attempt any five questions.  
(ii) Question no. 9 is compulsory.  
(iii) Be precise in your answer. Draw diagram wherever required.
1. Enlighten the functions of different type of tissues. Explain the events of contraction and relaxation in skeletal muscle. (12)
  2. What do you mean by acid base balance? With the help of schematic diagram, explain the mechanism of concentrated and dilute urine formation. (12)
  3. Give a detailed note on role of blood cellular components and plasma proteins. Explain the physiology of blood coagulation. (12)
  4. (a) In what ways are ECGs helpful in diagnosing cardiac problem?  
(b) How do hydrostatic and osmotic pressure determine fluid movement across the walls of capillaries? (6×2=12)
  5. Define organelle. Describe structure of cell membrane, mitochondria and nucleus. (12)

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6. Give an account of different type of tissues. Write a detailed note on epithelial tissues and nervous tissues. (12)
7. Discuss microscopic organization of skeletal muscles and its connective tissue covering. (12)
8. (a) Explain the gross structure of eye and ear with suitable diagram. (6)  
(b) What is respiratory membrane? Discuss about structure of lung. (6)
9. Write a short note on:
  - (i) Respiratory volume and capacities.
  - (ii) Functions of liver.
  - (iii) Cardiac cycle.
  - (iv) Concepts of Doshas, Dhatu & mal.
  - (v) Cell junction.
  - (vi) Asthi, Sandhi, Sanaya & Kandra. (2×6=12)