

10/05/2016  
Extra

S.E-III Sem - Biomed.  
Human Anatomy & Physiology

12

SE/III / CBGS / BM / HAP  
QP Code : 30563

(3 Hours)

[ Total Marks : 80

- N. B. : (1) Question No.1 is compulsory.  
(2) Attempt any three questions out of remaining five questions.  
(3) Figures to the right indicate full marks.  
(4) Assume suitable data if necessary, stating your assumption.  
(5) Answers to questions should be grouped together.

1. Attempt any four

- (a) Explain the functions of skin. 5  
(b) Differentiate between systemic & pulmonary circulation. 5  
(c) Differentiate between axons & dendrites. 5  
(d) Explain with neat diagram structure of spinal cord. 5  
(e) Explain the steps of coagulation. 5

2. (a) List the endocrine glands & state their secretion and functions. 12  
(b) Explain the mechanics of respiration. 8

3. (a) Draw & explain the lobes of cerebrum. Also state functions of lobes. 10  
(b) Explain the microscopic structure of a nephron with a neat & labeled diagram. 10

4. (a) Draw labeled diagram of human cell & explain functions of any four important organelles. 10  
(b) Explain with a neat diagram generation of a action potential. 10

5. (a) Classify epithelial tissues & state their functions. 10  
(b) Explain the mechanism of hearing with neat diagram. 10

6. Attempt any four

- (a) Explain anatomy of liver. 5  
(b) What is the composition of bile? 5  
(c) Write short note on reflex arc. 5  
(d) Explain the composition of Blood. 5  
(e) State the accessory organs of digestive system and their functions. 5