

2. Explain the digestion of carbohydrates, protein and fats. Discuss the role of Bile in absorption and digestion phenomenon. 15
3. Discuss physiology of urine formation mention the composition of urine and functions of urine constituents. 15
4. (a) Explain the process of Neurotransmission with special emphasis on Action Potential. 10  
(b) Discuss the organization of limbic system. 5
5. Discuss the secretion of Hypothalamus and Pituitary gland and describe the functions of each secretory hormone. 15
6. (a) Explain the organization of sympathetic and parasympathetic nervous system. 10  
(b) Add a note on cranial and spinal nerves. 5
7. (a) Discuss the physiology of vision with well labelled diagram of eye. 10  
(b) Discuss the physiology of olfactory sensation. 5

**B. Pharm. (Second Semester) (C.B.S.) Examination**  
**HUMAN ANATOMY AND PHYSIOLOGY—II**  
**Paper—III**

Time—Three Hours]

[Full Marks—80

- N.B. :**— (1) Question No. 1 is compulsory.  
(2) Solve any **FOUR** questions from the remaining.  
(3) Draw neat labeled diagram wherever necessary.
1. (a) Explain physiological role of Renin-Angiotensin System.  
(b) Name the types and functions of Glia cells.  
(c) Explain the role of vestibular apparatus and semi-circular canals in physiology of ear.  
(d) Discuss various Brain nuclei and pathways that help in temperatures regulation.  
(e) Explain the organization and functional role of Extrapyramidal system in brain.  
(f) Discuss the role of pancreatic secretions in digestion.  
(g) Discuss the role of parathyroid secretions in calcium homeostasis. 4×5=20