

2. Discuss the organization of Brain. Describe the anatomy and physiology of different brain regions. 15
3. (a) Discuss in detail about the process of urine formation. 10
- (b) Explain counter current multiplier mechanism to establish osmotic gradient in urine formation. 5
4. (a) Explain the digestive and absorptive mechanisms in the small intestine. 10
- (b) Describe the internal structure of small intestine. 5
5. Discuss the internal structure of eye involved in vision. Explain the exact mechanism involved in physiology of vision. 15
6. Describe the various hormones, their functions and regulations secreted by pituitary gland. 15
7. Explain organisations and functions of autonomic nervous system in detail. 15

**TKN/KS/16/6977**

**B. Pharm. Semester-II (C.B.S.) Examination**  
**HUMAN ANATOMY AND PHYSIOLOGY-II**  
**Paper-III : 2T3**

Time—Three Hours]

[Maximum Marks—80

- N.B.:-** (1) Question No. 1 compulsory.  
(2) Solve any **FOUR** questions from the remaining.  
(3) Draw neat labelled diagram wherever necessary.

1. Solve any **FIVE** from Q. No. 1 :
  - (a) Discuss the different layers present in the skin with suitable diagram.
  - (b) Draw a well labelled structure of ear and mention its functions.
  - (c) Mention the secretions and functions of adrenal gland.
  - (d) Explain the organization and functions of Brain stem.
  - (e) Discuss the regulation of gastric secretions.
  - (f) Write physical characteristics and composition of urine
  - (g) Draw a well labelled sturcture of nephron and explain it. 4×5=20