

B.Pharm (Second Semester) (C.B.S.) Examination

HUMAN ANATOMY AND PHYSIOLOGY—II

Paper—3 (2 T 3)

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. Answer any **FIVE** of the following :
 - (a) Write location and functions of thyroid gland.
 - (b) What are gustatory receptors ? Explain.
 - (c) What are semicircular canals ? Give significance.
 - (d) Write an account of posterior pituitary hormones.
 - (e) Draw well labelled diagram of malphigian capsules.
 - (f) Draw labelled diagram to show functional areas of cerebrum.
 - (g) Explain components of reflex arc. 5×4=20
2. Describe the macroscopic and microscopic structure of Liver by means of a well labelled diagram. Elaborate on physiology of liver. 15
3. (a) Draw a well labelled diagram of L.S. of Kidney. 5
(b) Enlist Kidney functions. Explain how these functions are achieved by Kidney. 10
4. Explain nerve impulse generation and transmission in non myclinated and non myclinated neurons. 15
5. (a) Describe anatomy and physiology of eye. 10
(b) Draw structure of retina. 5
6. (a) What are adrenal glands ? Write a detailed account of adrenocorticoids. 10
(b) Explain feed back regulation of T_3 & T_4 . 5
7. Write short notes on any **THREE** :
 - (a) Medulla Oblongata
 - (b) Limbic system
 - (c) Cranial nerves
 - (d) Structure of skin
 - (e) Islets of Langerhans. 15