

**B. Pharm Semester—II (C.B.S.) Examination**  
**HUMAN ANATOMY AND PHYSIOLOGY—II**  
**Paper—3**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :**— (1) Q. No. **1** is compulsory.

(2) Attempt any **four** from the remaining.

(3) Draw neat labelled diagram wherever necessary.

1. Solve any **five** :

- (a) Discuss the secretions of salivary glands.
- (b) Draw structure of nephron (well labelled).
- (c) Draw a well labelled internal structure of ear.
- (d) Explain the functions of skin.
- (e) Discuss the secretions of posterior pituitary gland.
- (f) Write the composition of pancreatic secretions with their functions.
- (g) Explain in brief extra pyramidal system. 5×4=20

2. (a) Describe in detail digestion and absorption of carbohydrates and proteins. 10

(b) Describe the structure and functions of different layers of G. I. lumen. 5

3. (a) Explain in detail the process of urine formation. 10

(b) Comment on renin-angiotensin system. 5

4. (a) Discuss in detail the sensory and motor pathways. 10

(b) Comment on autonomic ganglia. 5

5. (a) Discuss the biosynthesis, storage and secretion of Thyroid hormones. 10

(b) Explain regulation of body temperature. 5

6. (a) Draw a well labelled diagram of spinal cord and explain it. Explain the reflex arc with appropriate diagram. 10

(b) Comment on function of anterior pituitary gland secretions. 5

7. Short notes on any **two** :

(a) Physiology of vision

(b) Digestion and absorption of fats

(c) Limbic system. 15