

**B Pharm Even Semester Examination,
September, 2023**

PHARMACEUTICAL SCIENCES

(2nd Semester)

Course No: BP-201T

(Human Anatomy and Physiology-II - Theory)

FM: 75

Time: 3 Hours

The figures in the right margin indicate full marks for the question

I. A. Multiple Choice questions 1x10=10

1. Afferent neurons carry nerve impulses from
 - i) CNS to muscles
 - ii) CNS to receptors
 - iii) Receptors to CNS
 - iv) Effector organs to CNS
2. Which of the following cells supports, nourishes, and protect the neurons?
 - i) Nissl bodies
 - ii) Perikaryon
 - iii) Ganglia
 - iv) Glial cells
3. The correct sequence of complex process involved in the digestion of food is:
 - i) Ingestion-absorption-digestion-assimilation-excretion

2. What is the process of urine formation? Discuss in detail. 10

3. What is protein synthesis and genetic pattern of inheritance? (6+4)

III. Short answers (Answer seven out of nine questions) 5x7=35

1. What are hormones, classify them? What is the mechanism of action of hormones?(2.5+2.5)

2. What is the structure of adrenal gland? What are the hormones released from adrenal gland? (2.5+2.5)

3. What is male reproductive system?

4. What is the blood supply of nephron?

5. What are respiratory volumes and capacities?

6. What is the role of small intestine in the process of digestion?

7. What is ATP? What is the difference between oxidative phosphorylation and phosphorylation? (2+3)

8. What is nerve fibre? What are the anatomical and physiological properties of nerve fibre? (1+4)

9. What is the structure of pineal gland and what are the hormones released from pineal gland? (2.5+2.5)
