



Roll No:

(SEM I) THEORY EXAMINATION 2024-25
HUMAN ANATOMY AND PHYSIOLOGY

M.MARKS: 75

SECTION - A

$$10 \times 2 = 20$$

- Write the components of feedback mechanism.
- Write the function of Merkel cell in skin.
- What is cardiac output?
- Give the number of bones from different parts of vertebral column.
- Why mitochondria are known as powerhouse of cell?
- Give differences between skeletal and smooth muscle.
- Write the name and function of clotting factor XIII.
- Enlist the divisions of PNS.
- Write about synaptic and endocrine signaling.
- Write the life span of red blood cells.

SECTION - B

$$2 \times 10 = 20$$

- Draw a neat and well labelled diagram of plasma membrane. Discuss the various transport mechanism across the plasma membrane.
- Discuss the structure and functions of skin with neat and well labelled diagram.
- Explain in detail the number, name, type, location and function of cranial nerves.

SECTION – C

$$5 \times 7 = 35$$

- a) Explain various types of anemia.
- b) Write a note on ECG.
- c) Arrange various levels of structural organization with example.
- d) Explain the physiology of hearing.
- e) Discuss mitosis with suitable diagram.
- f) Write about synovial joints with example.
- g) Discuss anatomy and function of thymus with suitable diagram.