



Paper ID : 250432

Printed Page: 1 of 1  
Subject Code: BP101T

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

**TIME: 3 HRS**

**M.MARKS: 75**

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION – A**

**1. Attempt all questions in brief.**

**10 x 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. Attempt any two of the following:**

**2x10 = 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**

**3. Attempt any five parts of the following:**

**5 x 7 = 35**

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