



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

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

SECTION – B

2. Attempt any *two* of the following:

2x10 = 20

- a) Draw a neat and well labelled diagram of plasma membrane. Discuss the various transport mechanism across the plasma membrane.
- b) Discuss the structure and functions of skin with neat and well labelled diagram.
- c) 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

- 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.