



Paper ID : 253211

Roll No: _____

BPHARM
(SEM I) THEORY EXAMINATION 2025-26
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.	Define optic disc.
b.	Define cell junction and its types.
c.	Write the name of pigment present in rod and cone cell.
d.	Enlist receptors and primary neurotransmitter of sympathetic nervous system.
e.	Differentiate between paracrine and endocrine signaling.
f.	Classify synovial joint.
g.	Write the tissue name known as pacemaker.
h.	Write about the two main functions of excretory system.
i.	Define abduction and adduction.
j.	Enlist the types of bone.

SECTION B

2. **Attempt any two parts of the following:** **2 x 10 = 20**

a.	Define blood coagulation. Write in details about different cascades of blood coagulation.
b.	Draw a neat labeled diagram of cell. Write the structure and function of cell organelles
c.	Draw a well labeled diagram of heart. Explain in detail cardiac cycle.

SECTION C

3. **Attempt any five parts of the following:** **7 x 5 = 35**

a.	Explain the organization and physiology of skeletal muscles contraction.
b.	Explain the anatomy of eye with well labeled diagram and the physiology of vision.
c.	Discuss the structure and functions of lymph node with well labeled diagram.
d.	Write about the structure and function of skin.
e.	Explain transport mechanisms across plasma membrane.
f.	Discuss about the mechanism of physiology of hearing.
g.	Write a short note on cranial nerves with emphasis on their functions.