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

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.	Enlist various types of body cavities.
b.	Differentiate "membranous ossification " and "endochondral ossification".
c.	Determine the role of Merkel discs in Skin.
d.	Explain the roles of “microfilaments” and “microtubules”.
e.	Summarize the term “diapedesis”.
f.	Define “MALT”.
g.	Restate the function of “Ceruminous glands” in Ear.
h.	Examine the role of ‘Basal cells” in Olfactory bulb.
i.	Explain the term “Stroke Volume”.
j.	Recall “cardiac cycle and cardiac output”.

SECTION B

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

a.	Explain the structure of Synovial joint with well labelled diagram.
b.	Define Homeostasis. Explain its intrinsic and extrinsic pathways.
c.	Describe the structure and functions of cell and its organelles.

SECTION C

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

a.	Outline the anatomy and physiology of Taste buds.
b.	Assess the various waves, segments, and intervals in ECG.
c.	Examine the process of receptor mediated endocytosis.
d.	Analyze the structural and functional differences between Arteries, Veins and Capillaries.
e.	Explain the process at Neuromuscular Junctions with a well labelled diagram.
f.	Outline sliding filament theory and mechanism of skeletal muscle contraction.
g.	Examine the structure of long bones.