



PAPER ID-411387

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Subject Code: BP101T

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BPHARMA
(SEM I) THEORY EXAMINATION 2023-24
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.	Explain the functions of smooth endoplasmic reticulum.
b.	Compare catabolism and anabolism.
c.	Define synapse.
d.	Enlist the names of structural proteins present in skeletal muscle.
e.	Elaborate the role of vitamin K in blood clotting.
f.	What do you understand by Rh factor?
g.	Describe the functions of ceruminous gland present in the ear.
h.	Differentiate between preganglionic and postganglionic neurons.
i.	Discuss the importance of electrocardiogram.
j.	Define cardiac output.

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

a.	Define homeostasis. Explain positive and negative feedback mechanisms with examples.
b.	Discuss anatomy and physiology of eye with well labelled diagram.
c.	Explore various events of cardiac cycle with special emphasis on cardiac action potential.

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

a.	Draw a well labelled diagram of cell and discuss functions of cell organelles.
b.	Elaborate the structure and functions of vertebral column.
c.	Discuss the phenomenon of neuromuscular junction with the help of diagram.
d.	Explain various types of anemia.
e.	Differentiate between sympathetic and parasympathetic division of ANS.
f.	Describe various steps of mitosis (somatic cell division).
g.	Explain structure of the heart with well labelled diagram.