



Paper id: 252523

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Subject Code: BP201T

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

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.	Differentiate between afferent and efferent nerve fibers.
b.	Define reflex arc and explain its significance.
c.	What are the parts of the stomach? Mention the role of pepsin in protein digestion.
d.	Define saliva and mention its functions.
e.	Define tidal volume and inspiratory reserve volume.
f.	Describe two actions of the Renin-Angiotensin System (RAS) in kidney function.
g.	List two functions of cerebrospinal fluid (CSF).
h.	State any two functions of the pituitary gland.
i.	Define spermatogenesis and oogenesis.
j.	Define gene and allele.

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

a.	Explain the anatomy and physiology of the digestive system. Include the role of enzymes and hormones in digestion.
b.	Draw a neat diagram and discuss the anatomy of the respiratory tract. Add a note on the mechanism of respiration.
c.	Classify hormones and explain the structure, functions, and disorders of the pituitary and thyroid glands.

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

a.	Describe the structure of a neuron and explain the mechanism of synaptic transmission.
b.	Describe the functions of the thalamus and hypothalamus.
c.	Write the formation and role of ATP in cellular metabolism.
d.	Describe the gross structure of the kidney and explain the steps involved in urine formation.
e.	Name the various disorders associated with the respiratory system.
f.	Summarize the secretions, functions, and disorders of the adrenal gland.
g.	Discuss the menstrual cycle and hormonal changes associated with it.