

11 APR 2026

SEAT NO.

25677

**FIRST PROFESSIONAL B.H.M.S. EXAMINATION
HUMAN PHYSIOLOGY AND BIOCHEMISTRY PAPER - II
SUBJECT CODE: HOM UG-PB**

TIME: 3 HOURS

TOTAL MARKS: 100

Instructions:

- [1] Draw Diagrams Wherever Necessary.
[2] Figures to The Right Indicate Full Mark.

[3] All Questions Are Compulsory

Q – 1 Multiple Choice Questions.

10

- 1) Which gland secretes melatonin?
 - a) Thyroid
 - b) Pituitary
 - c) Pineal
 - d) Thymus
- 2) Medulla oblongata controls _____
 - a) Voluntary movements
 - b) Vital functions
 - c) Thinking
 - d) Emotions
- 3) Peristalsis refers to _____
 - a) Rhythmic contraction moving food Forward
 - b) Mixing movement
 - c) Absorption
 - d) Secretion
- 4) Sperm production occurs in _____
 - a) Seminiferous tubules
 - b) Vas deferens
 - c) Prostate gland
 - d) Epididymis
- 5) The luteal phase occurs after _____
 - a) Menstruation
 - b) Ovulation
 - c) Fertilization
 - d) Puberty
- 6) Special senses include _____
 - a) Vision, hearing, taste, smell, equilibrium
 - b) Touch only
 - c) Pain only
 - d) Temperature only
- 7) The lens of the eye functions to _____
 - a) Produce tears
 - b) Focus light on retina
 - c) Protect the eye
 - d) Produce the pigment
- 8) The basic unit of the carbohydrate is _____
 - a) Amino acid
 - b) Monosaccharide
 - c) Nucleotide
 - d) Fatty acid
- 9) Enzymes are mostly _____
 - a) Protein
 - b) Carbohydrate
 - c) Fat
 - d) Vitamins
- 10) Glucose is a _____
 - a) Monosaccharide
 - b) Disaccharide
 - c) Polysaccharide
 - d) Lipid

Q-2 Short Answer Questions

- 1) Describe the effects of altered secretion of parathormone
- 2) Describe pituitary insufficiency
- 3) Which structures make up limbic system? Describe functions of limbic system.
- 4) Properties of synapse.
- 5) Describe the process of absorption and secretion of large intestine
- 6) Placenta
- 7) Visual acuity
- 8) Glycolysis

Q-3 Long Answer Questions

- 1) Explain the effects of altered secretion of thyroid hormone in detail.
 - 2) What are upper motor neurons and lower motor neurons? Describe origin, course, termination and functions of Pyramidal tracts.
 - 3) Discuss the composition and functions of bile.
 - 4) Describe the functions of hormones secreted by ovary.
 - 5) Describe the mechanism of hearing.
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