

**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. ATTEMPT ALL THE QUESTIONS.
 2. DRAW DIAGRAMS WHEREVER NECESSARY.
 3. FIGURES IN RIGHT INDICATES FULL MARKS

Q - 1 Multiple Choice Questions.**(10)**

- (1) Which hormones are responsible for "fight or flight" response?

[A] Thyroxin and Melatonin	[B] Insulin and Glucagon
[C] Epinephrine and Norepinephrine	[D] Oestrogen and progesterone
- (2) Following are extra-pyramidal tracts except

[A] Vestibulospinal	[B] Corticospinal
[C] Rubrospinal	[D] Reticulospinal
- (3) Which of the following sugars is absorbed from the small intestine by facilitated diffusion?

[A] Fructose	[B] Glucose
[C] Sucrose	[D] Galactose
- (4) What is a fertilized cell called?

[A] Embryo	[B] Ovary
[C] Zygote	[D] None of the above
- (5) _____ is a lytic enzyme released by sperm.

[A] Hyaluronidase	[B] Trypsin
[C] Helicase	[D] None of the above
- (6) Colour blindness is due to defect in

[A] Rods	[B] Cons
[C] Rods and cons	[D] Rhodopsin
- (7) Organ of corti helps in

[A] Balancing	[B] Maintaining equilibrium
[C] Formation of wax	[D] Hearing
- (8) Which of the following is an example of epimers?

[A] Mannose and Glucose	[B] Glucose and Ribose
[C] Galactose and Mannose	[D] Glucose and Galactose
- (9) The individual monosaccharides are linked by a _____ to form a polysaccharide.

[A] Glycosidic bond	[B] Peptide bond
[C] Ester bond	[D] None of the above
- (10) Which of the following is known as the "bodybuilding food"?

[A] Fats	[B] Carbohydrates
[C] Proteins	[D] Vitamins

(40)

Q - 2 Write Short Answers.

- (1) Hormones of posterior pituitary
- (2) Explain the effects of altered secretion of adrenal cortex
- (3) Reflex arc
- (4) Describe physiological basis of memory
- (5) Movements of large intestine
- (6) Changes occurring at puberty
- (7) Night blindness and color blindness
- (8) Importance of enzyme in our body

(50)

Q - 3 Write Long Answers.

- (1) Describe the formation and functions of thyroid hormone.
 - (2) Describe the functions of hypothalamus.
 - (3) Describe the composition and functions of pancreatic juice.
 - (4) Describe the process of spermatogenesis.
 - (5) Describe the different types of refractive errors.
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