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25677

SEAT NO. \_\_\_\_\_

**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.**

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- 1) Hormone act on specific target cells by binding to :
  - a) Enzyme
  - b) DNA
  - c) Receptors
  - d) Nucleotides
- 2) Which lobe of the brain is responsible for vision?
  - a) Frontal
  - b) Temporal
  - c) Occipital
  - d) Parietal
- 3) The major site of nutrient absorption is :
  - a) Stomach
  - b) Small intestine
  - c) Large intestine
  - d) Esophagus
- 4) The primary reproductive organs in males are:
  - a) Seminal vesicles
  - b) Testes
  - c) Vas deference
  - d) Prostate gland
- 5) Fertilization usually occurs in:
  - a) Uterus
  - b) Vagina
  - c) Ovary
  - d) Fallopian tube
- 6) Which of the following is not a special sense?
  - a) Vision
  - b) Hearing
  - c) Touch
  - d) Taste
- 7) Which type of receptor responds to pain stimuli?
  - a) Mechanoreceptors
  - b) Nociceptors
  - c) Chemoreceptors
  - d) Photoreceptors
- 8) Which of the following is a disaccharide?
  - a) Glucose
  - b) Fructose
  - c) Sucrose
  - d) Ribose
- 9) Which bond holds amino acids together in a protein?
  - a) Glycosidic bond
  - b) Peptide bond
  - c) Hydrogen bond
  - d) Phosphodiester bond
- 10) Which vitamin is fat soluble?
  - a) Vitamin K
  - b) Vitamin C
  - c) Vitamin B12
  - d) Vitamin B6

**Q – 2 Short Answer Questions**

**40**

- 1) Cushing's syndrome
- 2) Hyperthyroidism
- 3) Synapse
- 4) Reflex arc
- 5) Describe movements of large intestine
- 6) Explain the functions of testis as an endocrine gland
- 7) Colour blindness
- 8) Mention the major functions of enzyme

**Q – 3 Long Answer Questions**

**50**

- 1) Describe the action and regulation of Insulin
- 2) Describe origin, course, termination and functions of posterior column tracts
- 3) Describe composition, functions and regulation of secretion of saliva
- 4) Discuss the uterine changes during menstrual cycle
- 5) Describe the olfactory receptors and olfactory pathway