

FEB - 2024

HUMAN PHYSIOLOGY AND BIOCHEMISTRY- II

Full Marks – 100

Time : 3.00 Hours

(Answer all questions)

Section (A) MCQs**Q.No.1. Multiple choice questions****(10x1=10)**

- i. ADH mainly acts upon:
 - a. PCT
 - b. DCT
 - c. Loop of Henle
 - d. Collecting duct
- ii. Phagocytosis in the CNS is done by
 - a. Astrocytes
 - b. Microglia
 - c. Oligocytes
 - d. Schwann cells
- iii. Which of the following is a component of Saliva?
 - a. Bile
 - b. Pepsin
 - c. Insulin
 - d. Amylase
- iv. Oogonia are derived from :
 - a. Amnion epithelium
 - b. Yolk sac
 - c. Stroma of Ovary
 - d. Germinal
- v. Which of the following cells secretes testosterone ?
 - a. Leydig cells
 - b. Sertoli cells
 - c. Spermatids
 - d. Spermatozoa
- vi. Organ of Corti is found in:
 - a. Middle ear
 - b. Utricle
 - c. External ear
 - d. Cochlea
- vii. Color vision is tested by:
 - a. Snellen's chart
 - b. Jaeger's chart
 - c. Ishihara's chart
 - d. Landolt's chart
- viii. Which of the following involved in carrying genetic information from DNA for protein synthesis?
 - a. r-RNA
 - b. m-RNA
 - c. sn-RNA
 - d. t-RNA
- ix. Pellagra caused by severe deficiency of:
 - a. Vitamin B 1
 - b. Vitamin B 2
 - c. Vitamin B 3
 - d. Vitamin B 12
- x. The name of the process by which glucose is converted to pyruvate:
 - a. Glycolysis
 - b. Gluconeogenesis
 - c. Glycogenesis
 - d. Glycogenolysis
 - e. Pentose phosphate pathway

Section B (SAQ & LAQ)

Q.No. 2 Short Answer Questions

(5X8=40)

- | | |
|-----------------------|---------------------|
| a. Oxytocin | e. Succus entericus |
| b. Addison's disease | f. Spermatogenesis |
| c. Neurotransmitters. | g. Choclea |
| d. Deep reflex | h. Thiamine |

Q No. 3 Long Answer Questions

(10x5==50)

- Give an account of the hormones secreted from neuro-hypophysis; describe the regulation of their secretions.
- Define and classify reflex action. Explain the properties of reflexes.
- Explain the composition of gastric juice and describe various phases of gastric secretion.
- What is menstrual cycle? Describe the ovarian changes taking place during menstrual cycle.
- Define visual field. Trace the visual pathway and describe.
