

2407000301030702
EXAMINATION AUGUST 2024 (PURAK EXAM)
BACHELOR OF HOMOEOPATHIC MEDICINE AND SURGERY
(CBDC) (FIRST YEAR)
PHYSIOLOGY AND BIOCHEMISTRY (PAPER - II)

[Time: As Per Schedule]

[Max. Marks: 100]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF HOMOEOPATHIC MEDICINE AND SURGERY (CBDC) (FIRST YEAR)**
 - b. Name of the Subject: **PHYSIOLOGY AND BIOCHEMISTRY (PAPER - II)**
 - c. Subject Code No: **2407000301030702**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Multiple choice Questions. (MCQ) (1 Marks each)

10

- 1) Thyroxine is also known as
 - a) T₄
 - b) T₃
 - c) Calcitonin
 - d) TSH
- 2) Anterior spinothalamic is a _____
 - a) Sensory tract
 - b) Pyramidal tract
 - c) Motor tract
 - d) none of these
- 3) Pepsinogen helps in digestion of _____
 - a) Proteins
 - b) Fats
 - c) Carbohydrates
 - d) None of above
- 4) Which cells synthesize and secrete androgens in males?
 - a) Sertoli cells
 - b) Mucus cells
 - c) Spermatogonia
 - d) Leydig cells
- 5) Corpus luteum is the source of secretion of
 - a) LH
 - b) Estradiol
 - c) Estrogen
 - d) Progesterone

- 6) Which is not a refractive error of an Eye.
- a) Emmetropia
 - b) Ametropia
 - c) Anisometropia
 - d) Presbyopia
- 7) Organ of Corti helps in:
- a) Vision
 - b) Hearing
 - c) Formation of wax
 - d) None of Above
- 8) Beta-oxidation is oxidation of:
- a) Glucose
 - b) Lipoproteins
 - c) Amino Acids
 - d) Fatty Acids
- 9) Cori's cycle is related with metabolism of:
- a) Creatinine
 - b) Urea.
 - c) Lactic Acid
 - d) Glycogen
- 10) Glycolysis converts:
- a) Glucose into pyruvate
 - b) Glucose into phosphoenolpyruvate
 - c) Fructose into pyruvate
 - d) Fructose into phosphoenolpyruvate

Q.2 Short Answer Questions. (SAQ) (05 Marks each)- All Question 40 Compulsory.

- 1) Discuss the function of Oxytocin in female
- 2) Describe stages of synthesis of Thyroid Hormone
- 3) Define Neuron. Describe classification of Neuron.
- 4) Explain the function of Hypothalamus.
- 5) Discuss the composition and function of Pancreatic juice
- 6) Write the role of Testosterone in male.
- 7) Explain the Receptors for Taste. Write in brief Taste pathway.
- 8) What is Glycolysis? Discuss the step of Glycolysis.

Q.3 Long answer Questions (LAQ) (10 marks each all compulsory) 50

- 1) Which hormones are secreted from Pituitary gland? Discuss the function of Growth Hormones with its applied physiology.

- 2) Describe the course and functions of Pyramidal tracts with appropriate diagram.
- 3) What are the different types of Salivary glands? Describe the composition, functions and regulation of secretion of Saliva.
- 4) Define Menstrual cycle. Describe the changes that take place in uterus during Menstrual cycle. Add a note on menstrual irregularity.
- 5) Draw appropriate diagram of Visual Pathway. Describe course of Visual Pathway with its applied physiology.
