

2407000301030701
EXAMINATION JULY / AUGUST 2024 (PURAK EXAM)
BACHELOR OF HOMOEOPATHIC MEDICINE AND SURGERY
(CBDC) (FIRST YEAR)
PHYSIOLOGY AND BIOCHEMISTRY (PAPER - I)

[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 - I)**
 - c. Subject Code No: **2407000301030701**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Write in neat hand writing.

Seat No:

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Student's Signature

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

10

- 1) Microscopic structural and functional unit of an organism is known as:
 - a) Cytoplasm
 - b) Nucleus
 - c) Cell
 - d) Mitochondria
- 2) Power house of cell is known as.
 - a) Ribosomes
 - b) Lysosomes
 - c) Golgi apparatus
 - d) Mitochondria
- 3) In Hypotonic solution RBC will.
 - a) Swell and Burst
 - b) Shrink
 - c) No effects
 - d) Floats
- 4) Apoptosis means.
 - a) Cell murder
 - b) Accidental cell death
 - c) Unprogrammed cell death
 - d) Programmed cell death
- 5) Life Span of a matured RBC is.
 - a) 100 days
 - b) 120 days
 - c) 200 days
 - d) 102 days

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

50

- 1) Classify White blood cell. Describe them in detail and name different stages of WBC development.
- 2) Define Haemoglobin. What are its types, forms, normal values, functions. Show schematic representation of Haemoglobin degradation.
- 3) Define Cardiac output, minute volume, stroke volume. What are the various factors on which cardiac output depends.
- 4) Describe Nervous regulation of respiration.
- 5) Define Nephron. Write down its types and various part. Write a note on Tubular reabsorption in detail.
