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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:** Seat No: 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. Student's Signature 5. Write in neat hand writing. Multiple choice Questions. (MCQ) (1 Marks each) 1) Microscopic structural and functional unit of an organism is known as: a) Cytoplasm b) Nucleus c) Cell d) Mitochondria Power house of cell is known as. b) Lysosomes a) Ribosomes d) Mitochondria c) Golgi apparatus 3) In Hypotonic solution RBC will. a) Swell and Burst b) Shrink c) No effects d) Floats Apoptosis means. a) Cell murder b) Accidental cell death d) Programmed cell death c) Unprogrammed cell death 5) Life Span of a matured RBC is. a) 100 days b) 120 days c) 200 days d) 102 days

6) Normal Cardiac cycle time is.	_
a) 0.8 Sec. b) 0.08 Sec.	X
c) 8.1 Sec. d) None of the above	,
7) The oxygen dissociation curve is.	
a) 'V' Shape b) 'U' Shape.	
c) Sigmoid. d) 'C' Shaped	
	6
8) Oliguria means.	j
a) Increased Urine output b) Decrease Urine Output.	•
c) Normal Urine Output d) None of above	
9) Substances responsible for skin color are.	
a) Melanin & Tyrosine b) Melanin and Brown fat c) Melanin & Keratin d) Melanin and Haemoglobin	
C) Welann & Kerain (d) Welann and Haemogloom	-
10) Cardiac muscles are.	5
a) Striated b) Involuntary	-
c) Present in Heart. d) All of the above	
Q.2 Short Answer Questions. (SAQ) (05 Marks each)- All Question 40	
Compulsory.	
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1) Draw a neat labeled diagram of cell with its different organelles. Write	7
any three functions of cell.	"
2) Define filtration. What is the physiological importance of Filtration.	
Explain with Examples.	
3) Define Bone marrow. Write Down any 4 functions of the same.	
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4) Name Junctional Tissues of Heart. Describe Sino Atrial Node.	
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5) Tidal volume & Cyanosis.	
6) Abnormal Constituents of Urine. Write applied physiology of any 01	
Constituents.	
7) Functions of skin.	
7) Functions of skin.	
8) Name different types of Muscles. Write down 03 differences among	
them.	
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- 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.
