BACHELOR OF SCIENCE (PERFUSION TECHNOLOGY) (CBCS – 2022 COURSE) B.Sc. (Perfusion Technology) Sem - I : WINTER- 2022 **SUBJECT: PHYSIOLOGY**

Time: 10:00 AM-12:00 PM

Day: Wednesday		ay		Time: 10:00 AM-12:00 P	
Date: 1	8-01-20	23	W-25361-2022	Max. Marks: 10	
	; ·				
N.B.	1)	There are THREE sec Section – A – Objective Section – B – Long Art Section – C – Short A	ve Type Questions	10 marks 20 marks 10 marks	
	2)	Section A is given in S sheet. This sheet should	SEPARATE sheet and has to ld be completed with the fine		
	3)			questions have to be answered.	
	4)	Section C has six shor answered.	t questions and ANY FIVE	questions have to be	
	5)	You have to make ☑:	such kind of mark in the box	of the appropriate answer.	
Seat ?	No				
			SECTION – A		
MC	Q s		; 	(10)	
1)	Long	refractory period is a pro	pperty shown by		
	a) [Cardiac muscle			
	b) [Skeletal muscle			
	c) [Single unit muscle			
	d) [Smooth muscle			
2)	All of the following are plasma proteins except				
	a) [Albumin			
	b) [_	Globulin			
	c) [Fibrinogen			
	d) [Myoglobin			
3)	Which	n of the following is not	a phase of action potential?		
	a) [Depolarisation			
	b) [Repolarisation			
	c) [Hyperpolarisation			
	d) [_	Resting membrane po	tential		
4)	Which of the following is muscle of inspiration?				
	a) [Internal intercostal			
	b) [External intercostal			
	c) [Latissimus dorsi			
	d) [Muscles of anterior al	odominal wall	P.T.O.	
				2.2.0.	

3)) Normal rate of respiration per influte is			
	a) 4 -8			
	b) 12 – 20			
	c) 21 – 28			
	d) 30 – 35			
6)) QRS complex in electrocardiogram is due to			
	a) Atrial depolarisation			
	b) Atrial repolarisation			
	c) Ventricular depolarisation			
	d) Ventricular repolarisation			
7)) Long term mechanism for regulation of blood pressure is			
	a) Baroreceptor reflex			
	b) Chemoreceptor reflex			
	c) CNS ischaemic response			
	d) Renin-Angiotensin-Aldosterone mechanism			
8)	Surface tension lowering agent present in alveoli is			
	a) Histamine			
	b) Serotonin			
	e) Surfactant			
	d) Immunoglobulin A			
9)	Resting membrane potential in skeletal muscle is			
	a) 60 mV			
	b) 90 mV			
	c) 40 mV			
	d) 150 mV			
10)	Normal cardiac output in healthy adults is			
	a) 3 L/min			
	b) 5 L/min			
	c) 10 L/min			
	d) 15 L/min			
Total	tal Marks Obtained Signature of Invigilator			
	Signature of Examiner			

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Day: Wednesday

Time: 10:00 AM-12:00 PM

Date: 18-01-2023

W-25361-2022

Max. Marks: 30

N.B.

1) There are **THREE** sections as

Section – A – Objective Type Questions – 10 marks Section – B – Long Answer Questions – 20 marks Section – C – Short Answer Questions – 10 marks

- 2) Section B has four long questions and ANY TWO questions have to be answered.
- 3) Section C has six short questions and ANY FIVE questions have to be answered.
- 4) Answer to both the section should be written in the **SAME** answer book.

SECTION - B

Long Answer (Attempt ANY TWO)

(20)

- 1) Define blood pressure. Enumerate various mechanisms involved in regulation of blood pressure. Describe baroreceptor mechanism in detail.
- 2) How are the white blood cells classified? Describe structure & functions of various white blood cells.
- 3) With the help of diagram, describe various volumes & capacities of lungs.
- 4) Define glomerular filtration rate. Discuss various factors affecting it

SECTION - C

Short Answer (Attempt ANY FIVE)

(10)

- 1) Enumerate transport mechanisms across cell membrane.
- 2) State mechanisms of hemostasis.
- 3) List the functions of surfactant.
- 4) List the sensations carried by spinothalamic tracts.
- 5) State functions of saliva.
- 6) List functions of cerebellum.

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