BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE) B. Sc. (Cardiovascular Technology) Sem - I: WINTER: - 2021 SUBJECT: PHYSIOLOGY

9ay : Friday 9ate 18-02-202	2 W-23321-2021	Time: 10:00 AM-12:00 PM Max. Marks: 40
N.B.		
2)	There are THREE section as Section A:- Objective Type questions: 10 ma Section B:- Long Answer Questions: 20 ma Section C:- Short Answer Questions: 10 ma Section A is given SEPARATE sheet and has to be an sheet should be completed within first 20 minutes of The sheet with section A will be collected by Supervise You have to make √ such kind of mark in the box of the There is no negative marking.	rks rks swered on SAME sheet. This starting of the examination. sor at the end of 20 minutes.
Seat No. :		
	SECTION – A	
Q.1 Char	acteristic feature of active transport is	
	does not require energy	
	requires energy	
	it is a downhill process	
	substances move along concentration gradient	
Q.2 Norm	nal platelet count is	
	4000-11000 / mm ³	
	1.5 lac - 4 lac / mm3	
	6 lac – 7 lac / mm ³	
	1-2 %	
Q.3 Neutr	ophilia occurs in	İ
	allergic conditions	
	acute bacterial infections	
	chronic bacterial infections	
	parasitic infections	
Q.4 If Re	d Blood Cells are suspended in hypertonic saline, then;	
	Red Blood Cells will shrink	
	Red Blood Cells will swell	
	No change in shape of Red Blood Cells	
	None of the above	

Q.5	Decrease in White Blood Cell count is known as	
	leucocytosis	
	leucopenia	
	leukemia	
	thrombocytopenia	
Q.6	All are plasma proteins, except	
	fibrinogen	
	albumin	
	globulin	
	actin	
Q. 7	Immediate source of energy for contraction of muscle is	·
	ATP	
	Glucose	
	Glycogen	
	Fatty acids	
Q.8	Pacemaker of human heart is	
	Sinoatrial node	
ļ	Atrioventricular node	
	Bundle of His	1
{	Purkinje fibers	
Q.9	Action potential for quiet inspiration is generated by	_·
	Dorsal respiratory group of neurons	
	Ventral respiratory group of neurons	
	Apneustic center	
{	Pneumotaxic center	
Q.10	Cause of first heart sound is	
	Opening of Atrioventricular valves	
	Closure of Atrioventricular valves	1
	Opening of Semilunar valves	
	Closure of Semilunar valves	
·		
l'otal	Marks obtained :	Signature of Invigilator
		Signature of Examiner

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N.B.

1) There are **THREE** section 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 answer questions and **ANY TWO** questions have to be answered.
- 3) Section C has Six short answer questions and **ANY FIVE** questions have to be answered.
- 4) Section B and C should be written in **SAME** answer sheet.
- 5) Draw neat diagram wherever necessary.

SECTION - B

Long answer questions (attempt ANY TWO)

(20)

- 1) Draw a diagram of Neuromuscular junction. Describe steps in transmission of impulse across Neuromuscular junction.
- 2) Define cardiac output. Describe various factors that determine cardiac output.
- 3) Define hypoxia. Enumerate its types. Describe effects of hypoxic hypoxia.
- 4) Draw and label dorsal column tracts. Enumerate functions of dorsal column tracts.

SECTION - C

Short answer questions (attempt ANY FIVE)

(10)

- 1) List functions of surfactant.
- 2) State functions of platelets.
- 3) Enumerate functions of saliva.
- 4) List various plasma proteins in blood.
- 5) Define glomerular filtration rate.
- **6)** List actions of estrogens.
