

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2021

CC6-PHYSIOLOGY

Time Allotted: 2 Hours Full Marks: 40

 ${\it The figures in the margin indicate full marks.}$

GROUP-A

		9-19 9-1	
1.		Attempt any five questions from the following:	$1 \times 5 = 5$
	(a)	What is cardiac arrhythmia?	
	(b)	What is meant by 'mean pressure'?	
	(c)	Define pacemaker of the heart.	
	(d)	What is tachycardia?	
	(e)	How much is the resting membrane potential in cardiac muscle fiber and SA node?	
	(f)	Why cardiac muscle cannot be tetanized?	
	(g)	Define mean blood pressure.	
	(h)	What do you mean by sino-aortic nerves?	
	(i)	Why cardiac muscle does not fatigue?	
	(j)	Write special characteristic of A-V bundle.	
		GROUP-B	
		Answer any three questions from the following	$5 \times 3 = 15$
2.	(a)	What is ballistocardiography?	2
	(b)	Mention the significance of various heart sounds.	3
3	(a)	Define haemorrhage.	2
٥.		What are its consequences?	3
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4.		Discuss briefly the regulation of cerebral circulation.	5
_		White the vale of outside acceptant on the morpholism of blood values	5
5.		Write the role of arterial receptor on the regulation of blood volume.	3
6.		Describe the physiological significance of lymphatic circulation.	5

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GROUP-C

		Answer any two questions from the following	$10 \times 2 = 20$
7.	(a)	What is cardiac index?	1
	(b)	Write a note on factors affecting cardiac output.	3
	(c)	Describe the measurement of cardiac output by applying Fick principle.	6
8.	(a)	Describe the cause and features of different heart sounds.	3+3
	(b)	State different intervals of ECG with significance.	4
9.	(a)	Explain the ionic basis of cardiac autorhythmicity.	4
	(b)	What are baroreceptors?	2
	(c)	Describe their role in the regulation of blood pressure.	4
10		Describe the impulse conduction from SA node to Purkinje System.	10

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