

## WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2022

## PHYACOR10T-PHYSIOLOGY (CC10)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

		Angreen one fire areations from the following	$8 \times 5 = 40$
		Answer any five questions from the following	
1.		What is reverse chloride shift?	2+4+2
	. ,	Describe the role of 'Chloride shift' in the transport of $CO_2$ from tissues to lung.	
	(c)	What is Haldane effect?	
2.	(a)	What are Hering-Breuer inflation and deflation reflex?	4+2+2
	(b)	State the origin and function of 'Phrenic nerve'.	
	(c)	What is Pre-Botzinger complex?	
2	( )		4 . 2 . 1
3.		Briefly discuss the effects of hypoxia in the body.	4+3+1
	. ,	What is appear time?	
	(c)	What is apnea time?	
4.	(a)	Describe the effects of nitrogen toxicity in deep-sea divers.	5+3
	(b)	What do you mean by Caisson's disease?	
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5.		Describe the role of respiratory muscles in the control of breathing.	6+2
	(b)	What is asphyxia?	
6.		Describe the role of central and peripheral chemoreceptor's in the regulation of	8
		respiration.	
7	(-)	William in configuration	2 . 4 . 2
7.	` ′	What is surfactant?	2+4+2
		State the role of surfactant in maintaining lung compliance.	
	(0)	What do you mean by Pneumothorax?	
8.	(a)	Mention the lung volumes and capacities that cannot be measured directly with	4+2+2
		spirometer and why?	
	(b)	What do you mean by FEV? Write its significance.	
		N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp	
		to their own respective colleges on the same day / date of examination within 1 hour after	
		end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple	
		copies of the same answer script.	

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