

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2023

CC10-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

 $1 \times 5 = 5$

The figures in the margin indicate full marks.

GROUP-A

- 1. Answer any *five* of the following:
 - (a) What is Bohr effect?
 - (b) What is dyspnea for air hunger?
 - (c) What is anatomical dead space?
 - (d) Define intrathoracic pressure.
 - (e) What is asphyxia?
 - (f) What is Residual Volume (RV)?
 - (g) What is spirometer?
 - (h) What is cough reflex?
 - (i) Define lung compliance.
 - (j) What do you mean by expiratory reserve volume?

GROUP-B

GROUI-B		
	Answer any three of the following	$5 \times 3 = 15$
2.	Explain Hering-Breuer reflex.	5
3.	Write a short note on lung function test.	5
4.	What is CO ₂ dissociation curve? Define edema.	3+2
5.	State the different types of hypoxia.	5
6.	Describe the exchange of respiratory gases at tissue level.	5
7.	Write briefly the peculiarities of pulmonary circulation.	5

GROUP-C

GROUI-C			
	Answer any <i>two</i> of the following	$10 \times 2 = 20$	
8. (a)	Is there any difference between shape of red blood cells of artery and vein?	2	
(b)	Discuss the chemical regulation of respiration. Where is the respiratory centre located?	7+1	
9.	What is intrapleural pressure? Explain its normal value, cause, measurement and significance.	2+2+2+2+2	
10.	Describe about respiratory movements of thoracic cage and lungs.	5+5	
11.(a)	Write a brief note on ventilation perfusion ratio.	3	
(b)	Write a short note on respiratory quotient.	3	
(c)	What is hypocapnia? Describe its cause and effects.	1+1+2	

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