

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2023

CC1-PHYSIOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1.	Answer any <i>five</i> from the following:	$1 \times 5 = 5$
(a)	What is pinocytosis?	
	What is secondary active transport?	
(c)	What is cell theory?	
(d)	What is spanning protein?	
(e)	What is calmodulin?	
(f)	Differentiate nuclear and mitochondrial DNA.	
(g)	What is neoplasia?	
(h)	Name two enzymes of mitochondrial matrix.	
(i)	What is antiport?	
(j)	What is facilitated diffusion?	
	GROUP-B	
	Answer any three from the following	$5 \times 3 = 15$
2.	·	5
3.	Discuss the mechanism of protein processing in endoplasmic reticulum. Describe the electron microscopic structure of inner membrane of mitochondria.	5
<i>3</i> . 4.	Explain glands with example according to mode of secretion.	5
4 . 5.		5
	Describe the mechanism of active transport and vesicular transport.	5
6.	Explain the structure and functions of cuboidal epithelium.	3
GROUP-C		
	Answer any two from the following	$10 \times 2 = 20$
7.	Describe the cAMP mediate cell signalling.	10
8.	Describe the positive and negative feedback mechanism of homeostasis.	5+5
9.	Write short notes on:	5+5
(a)	Desmosome	
(b)	Intercellular Communication.	
10.	Describe the phases of mitosis.	10
	X	

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