



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2023

GE1-P1-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What is deamination?
 - (b) What do you mean by mutarotation?
 - (c) What is symport?
 - (d) Define pinocytosis.
 - (e) Name one unsaturated fatty acid.
 - (f) What is active transport?
 - (g) Write the full form of LDL and HDL.
 - (h) Define specific gravity.

GROUP-B

Answer any three questions from the following 5×3 = 15

- 2. Briefly describe the process of HCl secretion in stomach. 5
- 3. What is GERL system? What is its function? 3+2
- 4. Describe the fluid-mosaic model of cell membrane. 5
- 5. Classify carbohydrates. What do you mean by allosteric enzymes? 3+2
- 6. Describe the structure and function of endoplasmic reticulum. 3+2

GROUP-C

Answer any two questions from the following 10×2 = 20

- 7. (a) What are rate limiting enzymes? 2
- (b) Describe the process of glycolysis. 8
- 8. Classify enzymes based on their functional activity. Define Osmosis. Write down the physiological importance of osmosis. 5+2+3
- 9. (a) Briefly describe the digestion of protein in the digestive tract. 5
- (b) What are the different types of salivary glands? 2
- (c) Enumerate the functions of saliva. 3
- 10.(a) What do you mean by cell cycle? 2
- (b) Describe the different stages of cell cycle with suitable diagram. 8

—x—