



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2021

CC1-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Attempt any **five**: 1×5= 5
 - (a) What is cell theory?
 - (b) Name two enzymes involved in phagocytosis.
 - (c) What is Na⁺/K⁺-ATPase?
 - (d) What is Ca⁺⁺ Pool?
 - (e) Define Necrosis.
 - (f) What is the main feature of Neoplasia?
 - (g) Mention the importances of membrane space.
 - (h) What is the importance of glycolipids in membrane?
 - (i) What is transmembrane protein?
 - (j) Write down the differences between Gorter and Grendel Model and Davson- Danielli membrane Model.

2. Attempt any **three**: 5×3 = 15
 - (a) Discuss the Granzyme B pathway.
 - (b) What is biochemical basis of Apoptosis?
 - (c) Name membrane lipids and their functions.
 - (d) What is apocrine secretion?
 - (e) Name nuclear enzymes and their functions.

3. Attempt any **two**: 10×2 = 20
 - (a) Write down the comparative study of the different cell signalling mechanisms.
 - (b) Discuss the differences between different epithelial tissue cell.
 - (c) Differentiate blood and lymph.
 - (d) Describe the homeostatic mechanism for control of cardiovascular functions.

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