



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2022

CC1-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Attempt any **five**: $1 \times 5 = 5$
- (a) Name the immune component of Lymph.
 - (b) What is $\text{Na}^+ - \text{K}^+$ ATPase?
 - (c) Mention the role of ER in mitosis.
 - (d) Define Antiport with example.
 - (e) Mention the features of Apoptotic body.
 - (f) Cellular aging is directly related to mitochondria—Explain.
 - (g) Define secondary active transport.
 - (h) Mention the importance of glycoprotein in cell membrane.
 - (i) What is f_1 particle?
 - (j) Mention one enzyme of outer membrane of mitochondria.
2. Attempt any **three**: $5 \times 3 = 15$
- (a) What is holocrine secretion?
 - (b) Mention the features of Necrosis.
 - (c) Describe the mechanism of transport of ions through membrane.
 - (d) What is cGMP system of signal transduction?
 - (e) Classify cartilage with histology and functions.
3. Attempt any **two**: $10 \times 2 = 20$
- (a) Describe the histology of nucleus and its role in apoptosis. 10
 - (b) Discuss the histology of different glands along with their functions. 10
 - (c) Explain different types of intracellular and intercellular communication. 10
 - (d) Describe the functions of Golgi apparatus along with mechanism in transport of excretory material and secretion. Discuss the mechanism of action of lysosomal enzymes. 5+5

_____x_____