



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 3rd Semester Examination, 2020

CC6-MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any four questions

10×4 = 40

1. How does cyclic AMP regulates glycogen breakdown in skeletal muscle cells? 10
2. Write down the mechanism by which phospholipids are transported from endoplasmic reticulum to mitochondria and peroxisomes. 6+4=10
3. Describe the 'Fluid mosaic model' of the plasma membrane. On the basis of this model explain different functions of the plasma membrane. 10
4. Describe the properties of the three classes of membrane proteins (Integral, peripheral, and lipid anchored), how they differ from one another, and how they vary among themselves. 10
5. Describe the nuclear envelope and the structure of its pores. What similarities occur between nuclear envelope and endoplasmic reticulum? 7+3=10
6. Give an account of the morphology, ultrastructure and chemistry of the chromosomes. Why the study of the chromosomes has become very significant in the field of biology? 7+3=10

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