COLLEGE INTERNAL ASSESSMENT 2023 DR KANAILAL BHATTACHARYYA COLLEGE Physiology Honours/Semester-I

Paper: CC 1

DATE-09/01/2023

Full Marks -10 (Time-30 Min)

1X10=10

A. Answer any 10 from the following: 1) What are mitoplasts? 2) What is 'Pinocytosis'? 3) Mention one function of peroxisome. 4) What are ionophores? Give example

- 5) What is autophagy?
- 6) Name the cytoskeletal elements of a eukaryotic cell.
- 7) Distinguish between primary and secondary active transport. (Any two)
- 8) What do you mean by linker DNA?
- 9) Name the phospholipid present in cell membrane.
- 10) What is 'Packing ratio'?
- 11) Name the different types of gated channels.
- 12) Write any two characteristics of mitochondrial DNA.
- 13) What is 'Check point' in cell cycle?
- 14) What is 'Pleiotropism'?
- 15) What are desmosomes?

Paper: CC 2

DATE: 09/01/2023

A. Answer any 10 from the following:

- 1) What is epimerism? Give example.
- 2) Write down the structure and systemic names of alanine.
- 3) What are reducing sugars? Give example.
- 4) How amylose differs from amylopectin?
- 5) Define iodine number.
- 6) Give example of an aromatic amino acid.
- 7) Write the structure and systemic name of linolenic acid.
- 8) Write the structure of an amino sugar.
- 9) Explain what happens when glucose is heated with dilute aqueous alkali.
- 10) State Van Hoff's Law of stereoisomerism.
- 11) Define zeta potential of colloid.
- 12) How do amino acids react with ninhydrin?
- 13) Write down the structure of cholesterol.
- 14) Why Phosphoglycerides are called amphipathic?
- 15) Define saponification number of fat.
- 16) How does facilitated diffusion differ from simple diffusion?

1X10=10

Full Marks -10 (Time-30 min.)