

001 / A2

**The West Bengal University of Health Sciences
M.B.B.S. 1st Professional (Supplementary) Examination, 2012****Subject : Biochemistry****Full Marks : 50****Time : 2½ hrs.***Use Separate answer script for each group**Attempt all questions. The figures in the margin indicate full marks.***Group - A**

1. a) Classify the membrane proteins. Mention their functions. Explain the ion channels as a mode of transport across the plasma membrane. 3+3+6

or

- b) Define redox potential. Explain its significance in electron transport chain with schematic diagram. Write the role of inhibitors of electron transport chain. 3+6+3

Group - B

2. Answer any two of the following : 2 x 7

- a) Define isoenzymes. Write the clinical significance of serum isoenzymes in cardiac disorder.
- b) Write the structure and mechanism of action of insulin.
- c) Describe the digestion and absorption of triglycerides with diagram.

Group - C

3. Write short notes on any four of the following

- a) K_m value of enzymes.
- b) Structure and function of IgG.
- c) Cyclic AMP.
- d) Coenzymes.
- e) Glycosaminoglycans.

Group - D

4. Explain the following statements : 4 x 3

- a) DNA denaturation is essential for DNA hybridization.
- b) Protein : Lipid ratio is maximum in inner mitochondrial membrane.
- c) Allopurinol is used for the treatment of hyperuricemia.
- d) Multiple myeloma is an immunoglobulin related disorder.