N-56093
M. Sc. (Part - II) Examination
April / May – 2003
Biochemistry : Paper-VI
(Biomembrane, Biophysics & Environment Biochemistry)

Time : 3 Hours] [Total Marks : 100

Instruction : All questions carry equal marks.

1 (a) Discuss the lipid monolayer and bilayer.
(b) Discuss that membrane is a fluid mixture of lipids and protein.

OR

1 Discuss the structure and properties of membrane.

2 Discuss The Active and Passive transports.

OR

2 Discuss the role of sodium and potassium in transportation.

3 Discuss the theoretical conformation analysis of protein.

OR

3 Explain the following :
(a) Ramchandran plot (b) Sedimentation
(c) Electron microscopy.

4 Explain any three of the following with respect to air pollution :
(a) Particulate matter (b) Carbon monoxide (c) Compound of nitrogen
(d) Sulphur dioxide (e) Suspended particle (f) Hydrogen sulphide.

5 Write notes on any two :
(a) Fluoride in water (b) Hardness of water
(c) Chemical oxygen demand (d) Biodegradation.