

N-56093

Seat No. _____

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.