

Exam.Code:0004

Sub. Code: 0360

1057

B.A./B.Sc. (General) Fourth Semester

Biochemistry

Paper – B: Membrane Biochemistry

Time allowed: 3 Hours

Max. Marks: 45

**NOTE:** Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write short notes on the following:-

- a) Organization of membrane
- b) Membrane fluidity
- c) Structure of fluid mosaic model of membrane (3x3)

**UNIT – I**

- II. Discuss in detail the structure of RBC membrane (9)
- III. Explain physical and biological models of membrane structure. (9)

**UNIT – II**

- IV. Discuss structure and functions of Ionophores. (9)
- V. Explain the following:-
  - a) Physical properties of membrane lipids
  - b) Facilitative diffusion (5,4)

**UNIT – III**

- VI. Explain the determination of transbilayer distribution of membrane components. (9)
- VII. Define liposomes and their characterization. (9)

**UNIT – IV**

- VIII. Explain the following:-
  - a) Erythrocytes deformities
  - b) Transport disorders (5,4)
- IX. Discuss in detail the signal hypothesis of membrane biogenesis. (9)

x-x-x