

Exam. Code: 0004

Sub. Code: 0360

1058

B.A./B.Sc. (General)-4th Semester

Bio-Chemistry

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.

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I. Write short notes on the following: -

- (a) Asymmetry of Bio-membranes
- (b) Structure and function of Na^+K^+ ATPase
- (c) Coated vesicles

(3×3)

UNIT – I

II. Discuss Protein-Lipid interactions in membranes.

(9)

III. Fluid mosaic model of membrane structure

(9)

UNIT – II

IV. Explain physical properties of membrane lipids.

(9)

V. Explain the following: -

- (a) Carrier mediated active transport
- (b) Membrane fluidity

(5+4)

UNIT – III

VI. Explain in detail isolation and characterization of cell membrane.

(9)

VII. Discuss structure and applications of Liposomes.

(9)

UNIT-IV

VIII. Explain the following: -

- (a) Disorders of membrane lipids
- (b) Trafficking of membrane components

(5+4)

IX. Discuss regulation and coordination of membrane component synthesis.

(9)

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