

AQ-919

M.Sc. (Part—I) Semester—II (CBCS Scheme)

Examination

BIOCHEMISTRY

(Cell Biology)

Paper—VII

Time : Three Hours]

[Maximum Marks : 80

Note :— ALL questions are compulsory and carry equal marks.

1. Describe various models for organisation of membrane. 16

OR

Discuss various membrane junction types in detail with suitable diagram. 16

2. Explain the following :

- (a) Structure of chloroplast membrane. 8
(b) Structure of mitochondrial membrane. 8

OR

- (p) Dynamics of E.R. 8
(q) Liposomes and drug targeting. 8

3. Write short notes on :

- (a) Scatchard plot. 5

(b) Cell surface receptor. 6

(c) Cell signalling. 5

OR

(p) Mechanism of adenylate cyclase. 6

(q) Bacterial chemotaxis. 5

(r) Mechanism of signal recognition and transduction. 5

4. Give account of structure of actin and myosin filaments.
Discuss the mechanism of cross bridge cycle. 16

OR

Describe the structure of myofibril and mechanism of sliding filament. 16

5. Discuss the following :

(a) Cytoplasmic streaming. 5

(b) Sperm motility. 5

(c) Structure of axonemes. 6

OR

(p) Cytoplasmic transport of vesicles. 6

(q) Biochemical dynamics of cytoskeleton. 5

(r) Any two theories of amoeboid movement. 5