

Bachelor of Science (B.Sc.) Semester—II (C.B.S.) Examination
ZOOLOGY (Cell Biology)
Compulsory Paper—2

Time : Three Hours]

[Maximum Marks : 50

- N.B.** :— (1) **ALL** questions are compulsory.
 (2) All questions carry equal marks.
 (3) Draw suitable diagrams wherever necessary.

1. Describe the ultrastructure of prokaryotic cell. 10
OR

Write notes on :

- (A) Ultrastructure of Golgi Complex 5
 (B) Functions of Endoplasmic Reticulum. 5

2. Give an account of Electron Transport System. 10
OR

Write notes on :

- (A) Glycolysis 5
 (B) Oxidative Phosphorylation. 5

3. Give an account of Ultrastructure of nuclear membrane. 10
OR

Write notes on :

- (A) Lamp brush chromosome 5
 (B) Structure and functions of nucleolus. 5

4. Describe the process of meiosis-I. Add a note on its significance. 10
OR

Write notes on :

- (A) Lake's model of ribosome 5
 (B) Cellular ageing and cell death. 5

5. Write **four** or **five** lines on the following (any **ten**) :

- (i) Exocytosis
- (ii) Active transport
- (iii) Acrosome formation
- (iv) F_1 particles
- (v) Suicide bag
- (vi) Dehydrogenation
- (vii) Telomere
- (viii) Submetacentric chromosome
- (ix) Balbiani rings
- (x) Anaphase of mitotic cell division
- (xi) S-phase of cell cycle
- (xii) Carcinogenic agents.

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