

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 the questions are compulsory.

(2) All questions carry equal marks.

(3) Draw suitable diagrams wherever necessary.

1. Describe ultrastructure of fluid mosaic model of plasma membrane. Add a note on its functions.

10

OR

Write notes on :

(a) Ultrastructure of Eukaryotic cell.

5

(b) Functions of Golgi complex.

5

2. Give an account on Ultra-structure of Mitochondria.

10

OR

Write notes on :

(a) Electron Transport System.

5

(b) Functions of lysosomes.

5

3. Give an account on Giant chromosomes.

10

OR

Write notes on :

(a) Ultra-structure of nuclear membrane.

5

(b) Structure of chromosome.

5

4. Describe structure and functions of Ribosome.

10

OR

Write notes on :

(a) Significance of Meiosis.

5

(b) Cancer and its causative agents.

5

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

- (i) Channel protein
- (ii) Vesicles
- (iii) RER
- (iv) NAD
- (v) Acetyl-Co-A
- (vi) Residual bodies
- (vii) Nuclear pore
- (viii) Histone
- (ix) Acrocentric chromosome
- (x) M-phase
- (xi) Dikinesis
- (xii) Synaptonemal complex.

10