

## Bachelor of Science (B.Sc.) Semester-II (CBS) 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. Give an account of structure and functions of Golgi complex. 10

**OR**

Write notes on :

(A) Fluid mosaic model 5

(B) Structure of Endoplasmic reticulum. 5

2. Give an account of oxidative phosphorylation. 10

**OR**

Write notes on :

(A) Ultrastructure of Mitochondria 5

(B) Polymorphism in Lysosome. 5

3. Give an account of Nuclear membrane. 10

**OR**

Write notes on :

(A) Nucleosome 5

(B) Lampbrush chromosome. 5

4. Give an account of Meiosis-I. 10

**OR**

Write notes on :

(A) Cell cycle 5

(B) Cellular ageing. 5

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

(A) Pinocytosis

(B) Plasmid

(C) Detoxification

(D) ATP

(E) Suicidal bags

(F) FAD

(G) Histone

(H) Balbiani rings

(I) 70 S ribosome

(J) Acrocentric chromosome

(K) Leukemia

(L) Necrosis. 10