

Second Semester B. Sc. Examination

ZOOLOGY

Paper - II

(Cell Biology)

Time : Three Hours]

[Max. Marks : 50

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

1. Describe ultrastructure and functions of endoplasmic reticulum. 10

OR

Write notes on :—

(A) Ultrastructure of prokaryotic cell. 5

(B) Draw well labelled diagram of fluid mosaic model of plasma membrane. 5

2. Describe the ultrastructure of mitochondria. 10

OR

Write notes on :—

(A) Glycolysis. 5

(B) Structure of lysosomes. 5

3. Describe the giant chromosomes in detail. 10

OR

Write notes on :—

(A) Ultrastructure of nuclear membrane.

(B) Structure of nucleosome.

10

4. Describe structure and functions of ribosome.

10

OR

Write notes on :—

(A) Synaptonemal complex.

5

(B) Cellular ageing and cell death.

5

5. Write **four** or **five** lines on the followings (Any Ten) :—

(i) Acrosome formation.

(ii) Vesicles

(iii) Endosmosis

(iv) NAD

(v) Decarboxylase

(vi) Suicide bag

(vii) Submetacentric chromosome

(viii) Telomere

(ix) Ribonucleoprotein

(x) S-phase

(xi) Zygote

(xii) Carcinoma.

(2)

10