

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 carry equal marks.
(3) Draw suitable diagrams wherever necessary.

1. Describe structure and functions of Golgi complex. 10

OR

Write notes on

- (A) Functions of plasma membrane. 5
(B) Ultrastructure of endoplasmic reticulum. 5

2. Describe the Kreb's cycle in detail. 10

OR

Write notes on :—

- (A) Ultra structure of mitochondria. 5
(B) Functions of Lysosome. 5

3. Describe the structure of typical chromosome in detail. 10



OR

Write notes on :—

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

4. Give detailed account on cancer and its causative agents. 10

OR

Write notes on :—

- (A) Mitosis. 5
(B) Cellular ageing. 5

5. Write four or Five lines on the following (any ten) :—

- (i) Prokaryotic Cell.
- (ii) Intrinsic Protein.
- (iii) Pinocytosis.
- (iv) Acetyl-coA.
- (v) Dehydrogenase.
- (vi) Residual bodies.
- (vii) Nuclear membrane.
- (viii) Histone Protein.
- (ix) Chromosomal loop.
- (x) Functions of ribosome.
- (xi) Apoptosis.
- (xii) Pachytene.

10

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