



TKN/KS/16/5802A

B.Sc. (Zoology) Second Semester (C.B.S.)

Zoology : Compulsory

Paper - II (Cell Biology)

P. Pages : 3

Time : Three Hours

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw suitable diagrams wherever necessary.

1. Describe the ultrastructure and functions of Golgi Complex. **10**

OR

Write notes on :

a) Ultrastructure of prokaryotic cell. **5**

b) Active transport across plasma membrane. **5**

2. Describe Krebs's citric acid cycle in Mitochondria. **10**

OR

TKN/KS/16/5802A

1

P.T.O



Write notes on :

- a) Structure of Mitochondria. 5
 - b) Polymorphic forms of lysosome. 5
3. Describe the structure of chromosome. Add a note on chromosomal types. 10

OR

Write notes on :

- a) Polytene Chromosome. 5
 - b) Ultrastructure of nuclear membrane. 5
4. Describe the process of somatic cell division (mitosis). 10

OR

- a) Cancer and its causative agents. 5
 - b) Synaptonemal complex. 5
5. Write four or five lines on the followings **any ten.** 10
- i) Membrane Proteins.



- ii) Functions of SER.
- iii) Phagocytosis.
- iv) ATP.
- v) Cristae.
- vi) Cytochrome.
- vii) Histone Proteins.
- viii) Oncogene.
- ix) Function of nucleolus.
- x) Apoptosis.
- xi) Pachytene stage.
- xii) G₁-Phase.
