

B.Sc. (With Credits)-Regular-Semester 2012 Sem II
2SZoo-T2 - Zoology Paper-II (Cell Biology)

P. Pages : 2

Time : Three Hours



GUG/W/16/5591

Max. Marks : 50

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

1. Describe in detail fluid mosaic model of plasma membrane. **10**

OR

- a) Structure and function of nucleolus.
- b) Structure of typical chromosome.

2. Describe ultra structure of endoplasmic reticulum and add a note on its functions. **10**

OR

- a) Mitosis.
- b) Structure and function of ribosome.

3. Attempt the followings. **10**

- a) Animal cell.
- b) Nuclear pore complex.
- c) Oxidative phosphorylation.
- d) Zygotene.

OR

- e) Mycoplasma.
- f) Polytene chromosome.
- g) Structure of mitochondria.
- h) Cell cycle.

4. Attempt the followings. **10**

- a) Cell theory.
- b) Nuclear membrane.

c) Structure of Golgi complex.

d) Pachytene.

OR

e) Active transport.

f) Lampbrush chromosome.

g) Respiratory chain complex.

h) Polymorphism in lysosome.

5. Write four or five lines on each of the followings **any ten.**

10

i) Prokaryotic cell

ii) Cell wall

iii) Facilitated diffusion.

iv) Centromere

v) Histone

vi) Karyolymph

vii) F₁ particle

viii) Co-Q

ix) Secretory vesicles

x) Spindle fibre

xi) Synaptonemal complex

xii) Suicidal bags
