

# Question Paper

B.Sc. II (Sem IV)

Botany Paper: Cell Biology, Genetics  
and Biochemistry

Date: / /

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Q. 1) Fill in the blanks.

1) The inner membrane of mitochondria form many finger like folds called \_\_\_\_\_ on which  $F_1$  particles are located.

2) Plasmamembrane mainly consist of proteins, lipids and \_\_\_\_\_.

3) The Interphase consist of three stages i.e \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ phase.

4) Variation in chromosome number caused due to multiplication of haploid set of chromosome is called \_\_\_\_\_.

Q. 2) Multiple choice question.

1) The important source of ATP needed for respiration is \_\_\_\_\_.

a) ER      b) Golgi Bodies      c) mitochondria      d) Vacuole

2) r-RNA synthesis occur in -

a) Lysosome      b) Ribosome      c) Nucleus      d) Cytoplasm



Q. 3) Short Answer question.

- 1) Draw structure of plasma membrane.
- 2) Draw structure of chromosome.
- 3) What is cell cycle.
- 4) Structure and function of vacuole.

Q. 4) Long Answer question.

- 1) What is concept of holoenzymes, Coenzymes and cofactors.
- 2) What is mitochondrial DNA and chloroplast DNA.