

B.Sc. (C.B.C.S. Pattern) Sem-I  
**BO-01 - Botany Paper-I : Plant Diversity-I**  
**(Microorganisms, Algae, Fungi and Plant Pathology)**

P. Pages : 2

Time : Three Hours



**GUG/S/19/11542**

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw well labelled diagrams wherever necessary.
  3. Illustrate your answers with suitable examples.

1. Write on -
- a) Explain the structure of T<sub>4</sub> Bacteriophage. 5
  - b) Explain the reproduction in Nostoc. 5

**OR**

Write short note on.

- c) Characteristics of viruses. 2½
  - d) Structure of Mycoplasma. 2½
  - e) Cell structure of Bacteria. 2½
  - f) Economic importance of cyanobacteria. 2½
2. Write on -
- a) Describe the sex organs of Chara. 5
  - b) Explain the morphological structure of Batrachospermum. 5

**OR**

Write short note on.

- c) General characters of Algae. 2½
  - d) Morphology of Oedogonium filament. 2½
  - e) Asexual reproduction of Vaucheria. 2½
  - f) Plurilocular sporangium of Ectocarpus. 2½
3. a) Explain the Asexual reproduction in Albugo. 5
- b) Economic importance of Fungi. 5

**OR**

Write short notes on:

- c) Asexual reproduction in Mucor. 2½
- d) Cleistothecium. 2½
- e) Uredospore in Puccinia. 2½
- f) Tikka disease of groundnut. 2½

4. Write note on.
- a) Types of Lichen. 5
  - b) Bacterial Blight of cotton. 5

**OR**

- Write short note on :
- c) TMV disease. 2½
  - d) Economic importance of Lichen. 2½
  - e) Control measures of Brown spot of Rice. 2½
  - f) Symptoms of Loose smut of wheat. 2½
5. Write **any ten** questions in one or two lines only (Diagrams are not necessary)
- a) Capsomeres. 1
  - b) Vaccins. 1
  - c) Gram stain. 1
  - d) Phanerogams. 1
  - e) Amylum star. 1
  - f) Oogonium. 1
  - g) Black Mould. 1
  - h) White rust. 1
  - i) Disjuncter. 1
  - j) Rhizine. 1
  - k) Chlorosis. 1
  - l) Colletotrichum falcatum. 1

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