

B.Sc. (CBCS Pattern) Semester - I
BO-01 - Botany Paper-I Plant Diversity-I
(Micro-organisms, Algae, Fungi and Plant Pathology)

P. Pages : 2

Time : Three Hours



GUG/S/23/11542

Max. Marks : 50

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

1. Write on :

- | | | |
|----|----------------------------------|---|
| a) | General characteristic of life. | 5 |
| b) | Economic importance of Bacteria. | 5 |

OR

Write short notes on :

- | | | |
|----|--|----|
| c) | Living and non-living nature of viruses. | 2½ |
| d) | Structure of T4 phage. | 2½ |
| e) | Structure of Mycoplasma (Diagram only) | 2½ |
| f) | Types of bacteria. | 2½ |

2. Write on :

- | | | |
|----|--|---|
| a) | General characteristic of Algae. | 5 |
| b) | Classification of Algae by G.M. Smith (1955) upto classes. | 5 |

OR

Write short notes on :

- | | | |
|----|-------------------------------|----|
| c) | Thallus structure of Nostoc. | 2½ |
| d) | Economic importance of Algae. | 2½ |
| e) | Globule in Chara. | 2½ |
| f) | Colonial forms of Algae. | 2½ |

3. Write on :
- a) Systematic position, occurrence and thallus structure of mucor. 5
 - b) Economic importance of Fungi. 5

OR

Write short notes on :-

- c) Sporangium in mucor. 2½
 - d) Diagrammatic representation of classification of fungi. 2½
 - e) Telial stage in Puccinia. 2½
 - f) General characteristic of fungi. 2½
4. Write on :
- a) Ecological and Economical importance of Lichen. 5
 - b) Classification of plant diseases on the basis of pathogen. 5

OR

Write short notes on :

- c) General characteristic of lichen. 2½
 - d) Symptoms of leaf curl of Papaya. 2½
 - e) Control measures of bacterial blight of cotton. 2½
 - f) Symptoms of red rot of sugarcane. 2½
5. Write **any ten** in one or two line only (Diagram is not necessary) 10

- a) Capsomere.
- b) PPLO
- c) Nucleoid
- d) Heterocyst
- e) Terrestrial Algae
- f) Corona
- g) Chitin
- h) Saprophytes
- i) Anisogamy
- j) Fruticose
- k) Smuts
- l) Hot water treatment.
