

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

P. Pages : 2

Time : Three Hours



GUG/W/22/11542

Max. Marks : 50

1. a) Define Virus? Give detail account on Morphology and Structure of T4 Virus? 5
b) Describe the Bacterial Cell Structure. 5

OR

Write short notes on :

- c) Living and Non living Characters of Virus. 2½
d) Describe the TMV. 2½
e) Describe the Structure of Mycoplasma. 2½
f) Economic importance of Bacteria. 2½
2. a) Discuss in brief on Classification of Algae. 5
b) Describe the Range of thallus structure in Algae. 5

OR

Write short notes on:

- c) Trichome of Nostoc. 2½
d) Globule 2½
e) Sexual reproduction in Algae. 2½
f) Economic importance of Algae. 2½
3. a) Discuss in brief on Mode of nutrition in Fungi. 5
b) Describe Sexual reproduction in Mucor. 5

OR

Write short notes on :

- c) General characters of Fungi. 2½
d) Uredospore 2½

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| e) | Aecial Stage | 2½ |
| f) | Economic importance of Fungi. | 2½ |
| 4. a) | Give the Ecological and Economical importance of Lichens. | 5 |
| b) | Describe in detail on Bacterial blight of Cotton disease. | 5 |

OR

Write short notes on:

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| c) | Types of Lichen | 2½ |
| d) | Classification of plant diseases based on pathogen. | 2½ |
| e) | Leaf curl of Papaya disease Symptoms and Causal Organism. | 2½ |
| f) | Red rot of Sugarcane diseases & control measures. | 2½ |
| 5. | Write any ten questions in one or two lines only (Diagrams are not necessary). | |
| a) | Obligate parasite. | 1 |
| b) | Episome. | 1 |
| c) | Coccus | 1 |
| d) | Anisogamy | 1 |
| e) | Nucule | 1 |
| f) | Amylam star | 1 |
| g) | Monokaryotic mycelium | 1 |
| h) | Chitin | 1 |
| i) | Haustoria | 1 |
| j) | Symptoms | 1 |
| k) | Pathogen | 1 |
| l) | Resistant Varieties. | 1 |
