

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

P. Pages : 2

Time : Three Hours



GUG/S/25/11542

Max. Marks : 50

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

1. a) Write in detail about transmission of viruses in plants. 5
b) Economic importance of bacteria. 5

OR

Write short notes on:-

- c) General characteristics of life. 2½
d) Structure of TMV virus. 2½
e) Nature of viruses (living and non-living) 2½
f) Structure of bacterial cell (diagram only) 2½
2. a) Write on details about range of thallus structure in Algae. 5
b) Classification of Algae by G. M. Smith. 5

OR

Write short notes on:-

- c) General characteristics of Algae. 2½
d) Economic Importance of Nostoc. 2½
e) Economic importance of Algae. 2½
f) Vegetative reproduction in Chara. 2½
3. a) Write general characteristics of fungi. 5
b) Write in detail about sexual reproduction in mucor. 5

OR

Write short notes on:-

- c) Economic importance of Fungi. 2½
d) Mode of nutrition in Fungi. 2½

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| e) | Thallus structure in <u>mucor</u> . | 2½ |
| f) | Uredinal stage in <u>Puccinia</u> | 2½ |
| 4. a) | Write in detail about Economic and Ecological importance of Lichen. | 5 |
| b) | Write in detail about classification of plant diseases based on pathogen. | 5 |

OR

Write short notes on:-

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| c) | General characteristics of Lichen. | 2½ |
| d) | Types of Lichen | 2½ |
| e) | Symptoms and control measures of Bacterial Blight of Cotton. | 2½ |
| f) | Symptoms and causal organisms of red rot of Sugarcane. | 2½ |
| 5. | Write any ten questions in one or two lines only (Diagrams are not necessary). | 1x10 |
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| a) | Capsid | |
| b) | Phage | |
| c) | PPLO | |
| d) | Globule | |
| e) | Mucilaginous sheath | |
| f) | Corona | |
| g) | Symbiont's | |
| h) | Coenocytic | |
| i) | Telia stage | |
| j) | Apothecium | |
| k) | Cankers | |
| l) | Smut | |
