

Bachelor of Science (B.Sc.) (CBCS Pattern) First Semester
BO-01 – Botany Paper – I – Plant Diversity – I
(Microorganisms, Algae, Fungi and Plant Pathology)

P. Pages : 2

Time : Three Hours



GUG/W/18/11542

Max. Marks : 50

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

1. a) Describe structure of mycoplasma. 5
b) Describe the vegetative reproduction in Nostoc. 5

OR

Write short notes on :

- c) General characteristics of life. 2½
d) Structure of TMV (Diagram only) 2½
e) Economic importance of Bacteria. 2½
f) General characters of viruses. 2½
2. a) Describe Economic importance of Algae. 5
b) Classification of Algae by G. M. Smith. 5

OR

Write short note on.

- c) Structure of globule in Chara. 2½
d) Thallus structure of Vaucheria. 2½
e) Plurilocular sporangia of Ectocarpus. 2½
f) Chantransia stage in Batrachospermum. 2½
3. a) Economic importance of Fungi. 5
b) Asexual reproduction in Albugo. 5

OR

Write short note on.

- c) Thallus of Mucor. 2½

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| d) | Asexual reproduction in <u>Penicillium</u> . | 2½ |
| e) | Uredospore in <u>Puccinia</u> . | 2½ |
| f) | Tikka disease in groundnut. | 2½ |
| 4. a) | Describe types of Lichen. | 5 |
| b) | Classification of plant diseases. | 5 |

OR

Write short note on

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| c) | Red rot of sugarcane (symptoms) | 2½ |
| d) | Brown spot of rice (control measures) | 2½ |
| e) | Loose smut of wheat (symptoms) | 2½ |
| f) | Bacterial Blight of cotton. | 2½ |
| 5. | Write any ten questions in one or two lines only (Diagrams are not necessary) | |
| a) | Bacteriophage. | 1 |
| b) | Gram positive bacteria. | 1 |
| c) | Heterocyst. | 1 |
| d) | Cap Cells. | 1 |
| e) | Nucule | 1 |
| f) | Aplanospores. | 1 |
| g) | White rust | 1 |
| h) | Sterigmata | 1 |
| i) | Conidiophore | 1 |
| j) | Rhizine | 1 |
| k) | Parasite | 1 |
| l) | Powdery Mildew. | 1 |
