

BO-01 - Botany-I : Plant Diversity-I : Micro-organisms, Algae, Fungi and Plant Pathology

P. Pages : 2

Time : Three Hours



GUG/W/23/11542 (S)

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Solve your answers with suitable examples and draw well labeled diagram wherever necessary.

1. Write on:

- a) Explain structure of Mycoplasma. **5**
- b) Ultra structure of Bacterial cell. **5**

OR

Write short notes on:

- c) Structure of T4 bacteriophage. **2½**
- d) Living and nonliving character of virus. **2½**
- e) Transmission of virus. **2½**
- f) Economic importance of Bacteria. **2½**

2. Write on:

- a) Nucule and Globule in Chara. **5**
- b) Thallus structure in algae. **5**

OR

Write short notes on:

- c) Economic importance of algae. **2½**
- d) Explain Nostoc filament. **2½**
- e) General characteristics of algae. **2½**
- f) Vegetative reproduction in Chara. **2½**

3. Write on:

- a) Asexual Reproduction in Mucor. **5**
- b) Uredial and telial stage in Puccinia. **5**

OR

Write short notes on:

- c) Useful aspects of fungi. **2½**
- d) General character of fungi. **2½**
- e) Thallus structure of Chara. **2½**
- f) Mode of nutrition in fungi. **2½**

4. Write on:
- a) Types of Lichens. 5
 - b) Classification of plant diseases based on pathogen. 5

OR

Write short notes on:

- c) Leaf curl of Papaya (Causal agent and symptoms). 2½
- d) Red rot of Sugarcane (Control measures). 2½
- e) Bacterial blight of Cotton (Causal organism and control measures). 2½
- f) Economic importance of Lichens. 2½

5. Write **any ten** questions in one or two lines only. (Diagrams are not necessary) 10

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|----------------------------|---------------|
| a) TMV | b) PPLO |
| c) Bacillus | d) Heterocyst |
| e) Amylum star | f) Isogamy |
| g) Mycology | h) Coenocytic |
| i) Black Mould | j) Host |
| k) Colletotrichum falcatum | l) Symbiosis |
