

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**
- 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
