

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

P. Pages : 2

Time : Three Hours



GUG/W/23/11542

Max. Marks : 50

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

1. Write note on.

- a) Cell structure of Mycoplasma. 5
- b) Ultrastructure of Bacterial cell. 5

OR

Write short notes on.

- c) General characteristic of life. 2½
- d) RNA virus-TMV. 2½
- e) Living & non living characters of viruses. 2½
- f) Economic importance of Bacteria. 2½

2. Write note on.

- a) Classification of Algae (G.M. Smith). 5
- b) Sex organ in Chara. 5

OR

Write short notes on.

- c) Aquatic habitat of Algae. 2½
- d) Asexual reproduction in *Algae*. 2½
- e) Explain Nostoc filament. 2½
- f) Economic importance of Algae. 2½

3. Write note on.

- a) Economic importance of Fungi. 5
- b) Uredial stage & Telial stage in Puccinia. 5

OR

Write short notes on.

- c) Mode of nutrition in fungi. 2½
- d) Asexual reproduction in *Fungi*. 2½
- e) Thallus body of *Mucor*. 2½
- f) General characteristics of fungi. 2½

4. Write note on.

- a) Types of Lichens. 5
- b) Symptoms and control measures of red rot of sugarcane. 5

OR

Write short notes on.

- c) Economic importance of lichens. 2½
- d) Classification of plant diseases. 2½
- e) Leaf curl of Papaya. 2½
- f) Bacterial blight of cotton. 2½

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

- a) PPLO b) Smokers.
- c) Food poisoning. d) Heterocyst.
- e) Amylum star. f) Stone wort.
- g) Mycology and Mycologist. h) Black mould.
- i) Aplanospore. j) Symptoms.
- k) Control measure. l) Host.
