

M.Sc. (Botany) (CBCS Pattern) Semester-I
PSCBOTT01 - Paper-I - Microbiology, Algae & Fungi

P. Pages : 1

Time : Three Hours



GUG/S/25/11150

Max. Marks : 80

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

1. Give an illustrated account of Structure, morphology and reproduction in Bacteria. **16**

OR

Write notes on:

- a) Morphology and ultrastructure of TMV. **8**
b) Economic importance of cyanobacteria. **8**

2. Describe in brief criteria for classification of various algal groups. **16**

OR

Write notes on:

- a) Diversified habitats of algae. **8**
b) Use of algae in feed and industry. **8**

3. Give an account of various trends and criteria used in recent fungal classification. Add a note on parasexual cycle. **16**

OR

Write notes on:

- a) Evolutionary trends in Myxomycota. **8**
b) Comparative study of oomycetes and zygomycetes. **8**

4. Give an illustrated account of Paddy blast and Leaf curl of Papaya with special reference to Symptomology, histopathology and etiology. **16**

OR

Write notes on:

- a) Evolutionary trends in Basidiomycetes. **8**
b) Classification of deuteromycetes. **8**

5. Write short notes on: **4x4**

- a) Koch's postulates.
b) Algal biofertilizers.
c) Heterothallism in fungi.
d) Polyporus.
