

M.Sc. - I (Botany) (NEP Pattern) Semester-I
NEP-01 / 01MSCB1 Paper-I - General Microbiology, Phycology and Mycology

P. Pages : 1

Time : Three Hours



GUG/S/25/15061

Max. Marks : 80

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

1. Write in detail about historical contributions made by Leeuwenhoek, Pasteur, Robert Hook. Jenner in Microbiology. **10**

OR

Write notes on:

- a) Archaeobacteria and Eubacteria-Reproduction and Economic importance. **8**
b) Cyanobacteria – General account and ultrastructure. **8**

2. Write in detail about Criteria for classification of Chlorophyta algae based on types the pigments reserved food flagella. **16**

OR

Write notes on:

- a) Diversified habitat of Algae. **8**
b) contributions of M.O.P. lyenger, V. D. Chauhan in Phycology. **8**

3. Write in detail about general account, recent trends and criteria used in classification of Fungi. **16**

OR

Write notes on:

- a) Heterothallism and heterokaryosis. **8**
b) General account of Physarium and Plasmodiophora. **8**

4. Write in detail about symptomology, histopathology, etiology and identification of citrus canker and paddy blast. **16**

OR

Write notes on:

- a) Comparative classification and evolutionary trends in Phyllactinia and Helminthosporium. **8**
b) Red rot of sugarcane and Potato blight. **8**

5. Write short notes on:
- a) Ultrastructure of TMV. **4**
b) Algal blooms. **4**
c) Parasexual cycle in Fungi. **4**
d) Xylaria. **4**
