

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

P. Pages : 1

Time : Three Hours



GUG/W/23/15061

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. Write about Vegetative structure and mode of reproduction in *Nostoc*. 16

OR

Write notes on:

- a) Economic importance of Archaeobacteria and Eubacteria. 8
b) Morphology and Ultrastructure TMV. 8

2. Write in detail about algae in diversified habitats. 16

OR

Write notes on:

- a) Algal bloom. 8
b) Economic importance of Algae. 8

3. Physiology of fungi with reference to biotroph, hemibiotrophs, symbionts. 16

OR

Write notes on:

- a) Heterothallism and Parasexual cycle in fungi. 8
b) Vegetative structure and mode of reproduction in *Rhizopus*. 8

4. Write detail about comparative study classification and evolutionary trends in Ascomycetes. 16

OR

Write notes on:

- a) Leaf curl of Papaya and potato blight. 8
b) Red rot of sugarcane and Paddy blast. 8

5. Write a short note:

- a) Viroids. 4
b) Algal biofertilizers. 4
c) Heterokaryosis. 4
d) *Saccharomyces*. 4
