

M.Sc.(Botany) (CBCS Pattern) Semester - I
PSCBOTT01 / BOT01-Paper-I : Microbiology, Algae & Fungi

P. Pages : 1

Time : Three Hours



GUG/S/23/11150

Max. Marks : 80

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

1. Describe the differentiating characters of Archaeobacteria & Eubacteria with respect to ultra structure, Nutrition & Reproduction. **16**

OR

Write on:

- a) Ultrastructure of viroids & prions. **8**
b) Reproduction in NOSTOC. **8**

2. Describe different divisions of Algae on the basis of pigments, reserve food & flagella. **16**

OR

Write on:

- a) Reproduction in Algae. **8**
b) Algae as a food, feed & uses in industry. **8**

3. Describe the fungal cytology with respect to Heterothallism, Heterokaryosis & parasexual cycle. **16**

OR

Write on:

- a) General structure & sexual reproduction in Phytophthora. **8**
b) General structure & Vegetative, Asexual reproduction in Rhizopus. **8**

4. Give comparative account on Ascomycetes & Deuteromycetes by giving one example of each. **16**

OR

Write on:

- a) Red rot of sugarcane **8**
b) Citrus canker. **8**

5. Write short note on:
a) Koch's postulate. **4**
b) Algae as a biofertilizers. **4**
c) Symbionts. **4**
d) Potato blight. **4**
