

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11150

Max. Marks : 80

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

- 1.** Describe structure, Morphology and Reproduction of Bacteria. **16**
OR
Write notes on:
a) Morphology & Ultrastructure of TMV **8**
b) Leeuwenhoek and Robert Hook contribution. **8**
- 2.** Thallus organization and cell ultra structure of Chthorophyta. **16**
OR
Write notes on-
a) Pigmentation and Reserved food in algae. **8**
b) Algal bloom and Algal biofertilizers. **8**
- 3.** Write detail account on physiology of Fungi with reference to biotrophs, hemi biotrophs and symbionts. **16**
OR
Write notes on-
a) Phytophthra-General characters and life cycle. **8**
b) Rhizopus- General characters and Life Cycle. **8**
- 4.** Describe structure, Morphology and Reproduction of Fusarium. **16**
OR
Write notes on-
a) Smut at Jowar and Citrus Cancer. **8**
b) Red Rot of Sugarcane and Paddy Blast. **8**
- 5.** Write short notes on-
a) Morphology of Gloeotrichia. **4**
b) Flagella in Algae. **4**
c) Parasexuality in Fungi. **4**
d) Gummosis. **4**
