

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

P. Pages : 1

Time : Three Hours



**GUG/W/23/11150**

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 account of history and contributions made by Leeuwenhoek, Pasteur, Robert Hook, Jenner, Waksman, Iwanowski and Koch in Microbiology. **16**

**OR**

Write notes on:-

- a) General account and ultrastructure of eubacteria. **8**  
b) Morphology and Ultrastructure of TMV. **8**
2. Give an account on algae in diversified habitats and reproduction in algae. **16**

**OR**

Write notes on:-

- a) Algal bloom & algal biofertilizer. **8**  
b) Thallus organization in algae. **8**
3. Give general account, classification, and evolutionary trends in Myxomycota with special reference to Physarum and Plasmodiophora. **16**

**OR**

Write notes on:-

- a) Fungal cytology. **8**  
b) Parasexual cycle. **8**
4. Write about the symptomatology, etiology, and histopathology of fungal diseases concern with wheat rust, red rot of sugarcane, and paddy blast. **16**

**OR**

Write notes on:-

- a) The evolutionary trend in Deuteromycetes. **8**  
b) Leaf curl of Papaya **8**
5. Write short notes on:
- a) Economic importance of Cyanobacteria. **4**  
b) Pigments, reserved food, and flagella in Chlorophyta. **4**  
c) Heterokaryosis. **4**  
d) Puccinia life cycle on Triticum **4**

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