

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

P. Pages : 1

Time : Three Hours



GUG/W/22/11150

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. Write an account of history and contributions of Leeuwenhoek, Pasteur, Robert Hook, Jenner, Iwanowsky. **16**
- OR**
- Write note on.
- a) Morphology and ultrastructure of TMV **8**
- b) Archaeobacteria and eubacteria **8**
2. Describe briefly thallus organization of algae. **16**
- OR**
- Write note on.
- a) Algal blooms and biofertilizers. **8**
- b) Rhodophyta: pigments, reserved food and flagella. **8**
3. Give an account of recent Ainsworth's classification of Fungi. **16**
- OR**
- Write note on.
- a) Physiology of Fungi. **8**
- b) Somatic structure and reproduction of Saprolegnia. **8**
4. Describe the stages in the life cycle of Puccinia in wheat plant **16**
- OR**
- Write note on.
- a) Black arm of cotton **8**
- b) Salient features of Deuteromycetes **8**
5. Write short notes on.
- a) Interferon. **4**
- b) Algae as a food **4**
- c) Heterothallism **4**
- d) Red rot of sugarcane **4**
