

8. Draw well labelled diagrams of the following :

- (a) V.S. Gills of Agaricus
- (b) V.S. Leaf of Berberis showing Pycnial stage and Aecidial cup.
- (c) V.S. Leaf of Wheat showing Telial Stage.

3+3+2=8

9. Write notes on the following :

- (a) Structure of a Bacteriophage
- (b) Economic importance of Lichens.**5+3=8**

Roll No.

Exam Code : M-21

Subject Code—52489

B. Sc. EXAMINATION

(Reappear) (Batch 2017)

(First Semester)

BOTANY

Paper I

Diversity of Microbes

Time : 3 Hours

Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. **1** is compulsory and is short answer type. Draw labelled diagrams, wherever required.

1. Define the following with examples :

- (a) Heterotrichous forms
- (b) Isokont Flagellation
- (c) Clump Formation

- (d) Symbiotic Nitrogen Fixation
- (e) Imperfect Fungi
- (f) Phytophagineae
- (g) Rhizomorph
- (h) Clamp Connection. **1×8=8**

Unit I

- 2. (a) Describe various methods of asexual reproduction in Nostoc.
- (b) Explain the economic importance of Blue Green Algae. **5+3=8**
- 3. (a) Explain the process of sexual reproduction in Macrandrous species of Oedogonium.
- (b) Comment upon the systematic position of Vaucheria. **5+3=8**

- 4. Write notes on the following :
 - (a) Tetraspore of Polysiphonia
 - (b) Cystocarp of Polysiphonia
 - (c) Synzoospore of Vaucheria. **3+3+2=8**
- 5. (a) Explain the classification of Algae given by Smith (1955).
- (b) Give Graphic life-cycle of Ectocarpus. **5+3=8**

Unit II

- 6. Describe Causal organism, symptoms, predisposing, factors and etiology of Late Blight disease of Potato. **8**
- 7. Write notes on the following :
 - (a) Sporangium and Sporangiospore in Mucor
 - (b) Conidiophore and Conidia in Penicillium
 - (c) Acervulus and Conidia of Colletotrichum. **3+3+2=8**