

Exam. Code : 103201

Subject Code : 1262

B.A./B.Sc. 1st Semester

BOTANY

Paper—IA (Diversity of Microbes)

Time Allowed—3 Hours]

[Maximum Marks—35

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section.

SECTION—A

1. Classify algae giving important features and economic importance of each group. 3,4
2. Describe the important features and life history of *Ectocarpus*. 2,5

SECTION—B

3. With the help of examples, describe the economic importance of bacteria. 7
4. Write short notes on the following :—
 - (a) General characters of *Mycoplasma*.
 - (b) Structure of Viruses. 3,4

SECTION—C

5. Describe the important features, economic importance and reproduction of *Saccharomyces*. 2,2,3

6. Write important characters of the following groups :

- (a) Mastigomycotina.
- (b) Zygomycotina.
- (c) Ascomycotina. 2,2,3

SECTION—D

7. Give a detailed account of the life cycle of *Puccinia*. 7

8. Comment on the importance of the following fungal genera :

- (a) *Cercospora*.
- (b) *Colletotrichum*.
- (c) *Agaricus*.
- (d) Lichens. 2,2,2,1