

Exam. Code : 103201

Subject Code : 1263

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

BOTANY

Paper-IA (Diversity of Microbes)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Attempt **five** questions, selecting at least **one** question each from Sections A, B, C and D. The **fifth** question may be attempted from any Section.

SECTION-A

1. Classify *Volvox* giving reasons. Describe its important features and life history with the help of suitable diagrams. 2,5
2. Describe the economic importance of algae. 7

SECTION-B

3. Give a general account of viruses and *Mycoplasma*. How do they resemble and differ from each other ? 5,2
4. Write short notes on the following :
 - (a) Reproduction in bacteria.
 - (b) Nutrition in bacteria. 4,3

SECTION-C

5. How does *Pythium* differ from *Phytophthora* ? With the help of diagrams, explain the life cycle of *Pythium*. 2,5

6. Write short notes on the following :

- (a) Cleistothecium of *Eurotium*.
- (b) Perithecium of *Chaetomium*.
- (c) Apothecium of *Peziza*. 3,2,2

SECTION-D

7. What are Lichens ? Describe the important types of Lichens that you have studied. 2,5

8. Describe the characters of the following :

- (a) Conidiophore and conidia of *Cercospora*.
- (b) Acervulus of *Colletotrichum*.
- (c) Basidiocarp of *Agaricus*.
- (d) Teleutospore of *Puccinia*. 2,2,2,1