Exam. Code : 103201 Subject Code : 1291

B.A./B.Sc. 1st Semester BOTANY (Diversity of Microbes) Paper-I-A

Time Allowed—3 Hours]

[Maximum Marks—35

Note: Attempt **five** questions in all. Question No. 1 is compulsory. Each question carries 7 marks.

- 1. Give short answers (3-4 lines) to each of the following:
 - (a) Define mycoplasma.
 - (b) Give the scientific binomial name of button mushroom.
 - (c) Which type of ascocarp is present in *Chaetomium*?
 - (d) Classify Sargassum giving reasons.
 - (e) What do you understand by binary fission?
 - (f) Name the most important component of fungal and bacterial cell wall.
 - (g) Name any two algal species which yield agar-agar.
- 2. Write short notes on the following:
 - (a) Reproduction in bacteria
 - (b) Nutrition in bacteria.
- 3. With the help of examples, describe the economic importance of algae.

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(Contd.)

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- 4. Give an account of the distribution, general characters and range of cell structures found in cyanobacteria.
- 5. Draw labelled diagrams of the following:
 - (a) Acervulus of Colletotrichum
 - (b) Sporophore of Agaricus
 - (c) Cleistothecium of Eurotium
 - (d) Budding cells of Saccharomyces
 - (e) Sporangiophore and sporangium of Mucor
 - (f) Sporangium of Phytophthora
 - (g) Uredospore of Puccinia.
- 6. Write briefly on the following:
 - (a) Differences between viruses and bacteria
 - (b) Differences between Ascomycotina and Zygomycotina.
- 7. Describe the important features and life history of *Volvox*.
- 8. Describe the types of lichens you have studied. Briefly describe their ecological importance.
- 9. Describe the important features and life history of *Polysiphonia*.