

Roll No. ....

11211

**11211**  
**B. Sc. (Pass Course) 1st Semester**  
**(Regular/Re-appear/Improvement)**  
**(Mercy Chance)**  
**Examination – December, 2023**

**BOTANY-I (Diversity of Microbes)**

Paper : BOT.1.1

*Time : Three Hours ] [ Maximum Marks : 40*  
*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.*

1. Answer the following Compulsory Questions in brief :  
8 × 2 = 16
- (a) Describe Nutrition in Fungi.  
(b) Give characteristics of Mastigomycotina.

- (c) Describe characteristics of Cyanobacteria.  
(d) Define Bacteriophage.  
(e) Explain Reproduction in Polysiphonia.  
(f) Name Disease caused by Colletotrichum Fungi.  
(g) Write mode of nutrition in Vaucheria.  
(h) Define Algal Blooms.

**UNIT – I**

2. Explain the Nutrition & mode of reproduction in Bacteria. 16  
3. Explain in detail the general characters & the economic importance of algae. 16

**UNIT – II**

4. Give a brief account on : 2 × 8 = 16  
(a) Mode of Reproduction in Ectocarpus  
(b) Characteristics of Polysiphonia  
5. Explain the important features & life history pattern of oedogonium & Volvox. 16

**UNIT – III**

6. Give an general account of Lichens. 16  
7. Give an general account on Bacteriophages. 16

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**UNIT – IV**

- 8. Explain :** **2 × 8 = 16**
- (a) Important characteristics of Basidiomycotina.
  - (b) Mode of Reproduction in Penicillium.
- 9. Give a detailed account of salient features of :** **2 × 8 = 16**
- (a) Phytophthora
  - (b) Zygomycotina
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