

## MSc Sem.-1 Examination

401

Botany

Time : 2-30 Hours]

February-2025

[Max. Marks : 70

**Instructions:** All Questions carry equal marks  
Attempt all Questions

- |       |  |    |
|-------|--|----|
| Q I   | Explain in Detail: Microbial Culture   | 14 |
| OR    |  |    |
| Q I   | A. Viruses   | 7  |
|       | B. General account of Bacteria   | 7  |
| Q II  | Classification of Fungi by Alexopoulos and Mims. And give Economic Importance of Fungi                                   | 14 |
| OR    |  |    |
| Q II  | A. Write a note on Heterothallism  | 7  |
|       | B. Explain different types Reproduction in Fungi   | 7  |
| QIII  | Explain: Characteristics and Cell ultra-structure of Rhodophyta  | 14 |
| OR    |  |    |
| Q III | A. Write a Note on: Origin and Evolution of algae  | 7  |
|       | B. Role of algae in Biofertilizers   | 7  |
| Q IV  | What is Microwave Assisted Extraction (MAE)? Explain this with its role and uses.  | 14 |
| Q IV  | A. Explain: Mushroom cultivation   | 7  |
|       | B. Write a note on: Commercial utilization of Algae in Gujarat   | 7  |
| Q V   | Attempt any 7 out of 12 MCQs/Short question (One- or Two-line answer)/ Fill in the blanks/True or False/ Defination etc. | 14 |
|       | 1 Define Phytoplasma.  |    |
|       | 2 What is biofilm?   |    |
|       | 3 Give any four names of plant disease occur due to bacteria   |    |
|       | 4 Draw any one disease cycle.  |    |
|       | 5 Reniform Zoospores are produced by algae or fungus? Give name of that.   |    |
|       | 6 What is the difference between ascus and basidium?   |    |
|       | 7 Which pigments are presents in Chlorophyta?  |    |
|       | 8 Which criteria are used in algal classification?   |    |
|       | 9 Give four examples of marine Phaeophyta algae  |    |
|       | 10 Give full form of CBO and give brief account of it.   |    |
|       | 11 Give examples of Fungal culture methods.  |    |
|       | 12 What is Biomass?  |    |