



M.Sc. I Semester Degree Examination, April/May - 2024

MICROBIOLOGY

MB DSC-2 : Mycology and Phycology

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with question No. **1 (Q.1) Compulsory**. Each question carries **equal** marks.

1. Describe the reproduction process in fungi. 14
2. Write brief notes on :
 - (a) Sex hormones in fungi 7
 - (b) Structure of Claviceps 7
3. Write about Fritsch and Parker system of classification of Algae. 14
4. (a) What are lichens and discuss different types of lichens ? 10
(b) What are the different types of media used for the cultivation of algae ? 4
5. Describe the following :
 - (a) VAM 5
 - (b) Algal blooms 4
 - (c) Mycotoxins 5
6. (a) Differentiate between homothallism and heterothallism. Discuss the different types of heterothallism in fungi. 9
(b) Discuss the salient features of Basidiomyceta. 5
7. (a) Briefly explain the Haplontic and Diplontic life cycle of algae. 7
(b) Write a brief note on quorum sensing in fungi. 7
8. (a) Why are algae important in food chain in aquatic environment ? 5
(b) What are the salient features of Oomycetes ? 5
(c) Write a short note on algal cell wall. 4

