

October 2025
B.A./B.Sc.
First Semester
MINOR – 1
BOTANY
Course Code: BON 1.11
(Phycology & Mycology)

Total Mark: 50
Time: 2 hours

Pass Mark: 20

I. Answer the following questions.

1. (a) Write a note on the cell structure and components of algae. Give a comparative account of the pigment system and reserve food of the divisions Chlorophyceae, Rhodophyceae, and Phaeophyceae. 6+6=12

OR

- (b) Discuss in detail the life cycle of *Chara* with the help of a suitable diagram. 12

2. (a) Give an account of the classification of fungi by Ainsworth. 12

OR

- (b) Discuss the life cycle of *Saccharomyces* in detail with an appropriate diagram. 12

3. (a) Give an account of the types of mycorrhiza. Add a note on the ecological significance of mycorrhiza. 8+4=12

OR

- (b) Give an account of the general characteristics of slime moulds. Write the different types of *Plasmodium* found in slime moulds. 12

II. Write notes on any two of the following questions. 7×2=14

4. Algal habitat
5. Economic importance of fungi
6. Types of lichens