



K23P 3069

Reg. No. :

Name :

I Semester M.Sc. Degree (C.B.C.S.S.-OBE-Regular) Examination, October 2023
(2023 Admission)
BOTANY
MSBOT01 C02 : Phycology, Mycology and Plant Pathology

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** questions. **Each** question carries **3** marks.

1. Describe life cycle pattern in Rhodophyta.
2. Give a brief account on fossil algae.
3. Explain parasexuality in fungi.
4. Give an account on Mycorrhiza.
5. What are phytoalexins and second messengers in plant defense ?
6. What are important biotic and abiotic factors in pathogenesis ? **(5×3=15)**

PART – B

Answer **any three** questions. **Each** question carries **6** marks.

7. While attending an interactive talk on carbon sequestration, expert speaker requested you to suggest any method for carbon sequestration. What will be your suggestion ?
8. An algal mixture provided to you and requested you to identify algal members from Cyanophyta and Chlorophyta. Suggest various identification features you are expected to apply for the identification of these algal groups.
9. 'Fungal toxins in certain agricultural commodities has been a serious concern for animal and human health'. Critically examine the statement.

P.T.O.

K23P 3069



10. A farmer discussed you about mealybug attacks in his vegetable garden. How will you help the farmer by giving an awareness on mealybug attack and measures to control the mealybug ?
11. In your kitchen garden, Lady's finger showed chlorosis on leaves and varying degrees of yellowing of veins and veinlets. Can you identify the disease ? What are the measures you are expected to take to manage the disease ? **(3×6=18)**

PART – C

Answer **any three** questions. **Each** question carries **9** marks.

12. Analyze the algal blooms and impact on our environment.
13. Discuss interrelationship among different algal groups.
14. Give a comparative account on various fruiting bodies in fungi.
15. What are lichens ? Analyze various ecological role of lichens.
16. 'Evolving suitable biological control is the best way to manage the pathogen attack' – analyze the statement. **(3×9=27)**