K24P 3876

Reg. No. : .....

Name : .....

I Semester M.Sc. Degree (C.B.C.S.S. – OBE-Reg./Supple./Imp.) Examination, October 2024
(2023 Admission Onwards)
BOTANY
MSBOT01C02 : Phycology, Mycology and Plant Pathology

Time : 3 Hours Max. Marks : 60

PART – A

Answer **any five** questions. **(5×3=15)**

1. Outline the role of diatoms in aquatic ecosystems.
2. Describe the significance of alginates derived from algae.
3. Explain the concept of homothallism in fungi.
4. Describe the association of arbuscular mycorrhizal fungi with plant roots.
5. What are PR proteins ? Explain their role in plant immunity.
6. Identify common environmental factors that lead to fungal infections in plants.

PART – B

Answer **any three** questions. **(3×6=18)**

7. During a workshop on marine ecosystems, suggest a sustainable way to use algae for carbon capture.
8. Differentiate the structural and reproductive features of Cyanophyta and Rhodophyta.

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9. Discuss the economic impact of fungal contamination in stored grains.
10. Advise a farmer on managing nematode attacks in root crops.
11. Your pumpkin plants display powdery patches on leaves. Identify possible diseases and control methods.

PART – C

Answer **any three** questions. **(3×9=27)**

12. Discuss the ecological implications of algae as indicators of water quality.
13. Compare structural and reproductive adaptations among Chlorophyta, Rhodophyta and Phaeophyta.
14. Explain the life cycle of Ascomycota and its impact on agriculture.
15. Analyze the role of lichens in the nitrogen cycle and soil formation.
16. Discuss the benefits and challenges of using biological control in agricultural pest management.

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