

OCTOBER 2012

P/ID 40221/PBTA

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 50 words.

Explain / Define

1. Unilocular sporangium.
2. Heterocyst.
3. Heterokontae.
4. Apothecium.
5. Ergot of Rye.
6. Hymenium.
7. Lophotrichous.
8. Bacterial Virus.
9. Mycobiont.
10. Soredia.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Write brief notes on cellwall composition of major classes of algae.

Or

- (b) Describe the structure of sex organs in Nitella.

12. (a) Comment on algal blooms.

Or

- (b) Describe the structure of Microcystis and add a note on its role in ecosystem.

13. (a) Give the salient features of Ascomycetes.

Or

- (b) Explain the method of a sexual reproduction in Plasmodiophora.

14. (a) Describe the fine structure of bacterial cell

Or

- (b) Explain serial dilution technique.

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15. (a) Comment on Mycotoxins.

Or

(b) Give the etiology, symptoms and causative agents of paddy blast disease.

PART C — (5× 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Discuss the range of thallus organisation in Algae.

Or

(b) Write an essay on the application of algae in Food and Pharmaceutical Industries.

17. (a) Describe the life history of Ectocarpus.

Or

(b) Discuss the method of auxospore formation in Cyclotella.

18. (a) Give an account on classification of fungi, proposed by Alexopoulos and Mims.

Or

(b) Write an essay on Mushroom Cultivation.

19. (a) Describe the structure and life history of Fusarium.

Or

(b) Give a detailed account on the economic importance of fungi.

20. (a) Give an account of the structure and nature of plant viruses.

Or

(b) Give an account of various methods of reproduction in Lichens.

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