

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEMM-219

M.Sc. (IInd Semester) Examination, 2022

MICROBIOLOGY

Paper - FS-MIC-CC-203

(Eukaryotic Microbiology)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all the *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. Short Answer Questions :

- (i) Define endophytic fungi.
- (ii) Write *two* examples of toxigenic fungi.

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- (iii) Write classification of Dictyostelium.
- (iv) Write full form of EPS.
- (v) What is the importance of probiotics ?
- (vi) Define Bioremediation.
- (vii) Differentiate endo and ectomycorrhiza.
- (viii) Write the causal organism of amoebic dysentery.
- (ix) Write about structure of sargassum.
- (x) Define Biofuels.

Section-B

Unit-I

- 2. Explain life-cycle of trichoderma.
- 3. Write short note on adaptation of endophytes.
- 4. Write about biopesticides.

Unit-II

- 5. Write about arbuscular mycorrhizal fungi.
- 6. Describe use of yeast in alcoholic fermentation.
- 7. Culturing and benefits of fungi. Explain it.

Unit-III

- 8. Explain asexual reproduction in volvox.
- 9. Write about algal diversity.
- 10. Write about general characters of coccidia.

Section–C

Unit–I

11. Write general characters and life-cycle of Albugo.
12. Describe toxigenic fungi in sustainable agriculture with special emphasis on biopesticides.

Unit–II

13. Describe biotechnological applications of yeasts.
14. Write about recent advances in the field of mycorrhiza.

Unit–III

15. Write a note on the role of algae in sustainable environment.
16. Explain life-cycle of plasmodium in detail.