

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM2019

M.Sc. (IInd Semester) Examination, 2021

MICROBIOLOGY

Paper - MB-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 carries 1 mark each. The answer should not exceed 50 words.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answers should not exceed 200 words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each question carries 5 marks. The answer should not exceed 500 words.

Section-A

1. Attempt all *ten* questions. Answers should not exceed 50 words in each question.

(Describe in short) :

- (i) Biopesticides
- (ii) Candida

BI-1636

(1)

SEM2019 P.T.O.

- (iii) Probiotics
- (iv) Endomycorrhizal fungi
- (v) VAM fungi
- (vi) Bioremediation
- (vii) Biofuels
- (viii) Name any *two* brown algae
- (ix) Bioactive molecules
- (x) Rolling algae

Section–B

Note :- Answer *five* questions in about **200** words, by selecting at least *one* question from each Unit. Each question carries 3 marks.

Unit–I

- 2. Write the general characteristics and life cycle of Fusarium.
- 3. Write a note on the Rhizopus.
- 4. Write a note on Toxigenic fungi.

Unit–II

- 5. What is Fermentation ? Describe the use of yeast in alcoholic fermentation.
- 6. Write a note about culture and benefits of VAM Fungi.
- 7. Describe any *two* Biotechnological applications of Yeasts.

Unit–III

- 8. Describe the general characteristics and life cycle of Gelidium.
- 9. Describe the life cycle of plasmodium.
- 10. Write the role of algae in sustainable environment.

Section–C

Unit–I

11. Write a detailed note role of toxigenic fungi in sustainable agriculture with special emphasis on Biopesticides.
12. Write the general characteristics and life cycle of Gliocladium and Penicillium.

Unit–II

13. Write a detailed note on Yeast as producer of organic acids and EPS.
14. Describe the diversity of endo and ectomycorrhizal fungi.

Unit–III

15. Describe in detail the life cycle of trypanosoma also describe the treatment and prevention of trypanosomiasis.
16. Write a detailed note on importance of algae.