

C 21548

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Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022**

Microbiology

MBG 4B 04—SOIL AND AGRICULTURAL MICROBIOLOGY

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

**Section A***Answer atleast **ten** questions.**Each question carries 3 marks.**All questions can be attended.**Overall ceiling 30.*

1. Causative agent of bunchy top of banana.
2. Gloeocapsa.
3. Write examples of any bacterial pesticides.
4. Synergism.
5. Nematophagus fungi.
6. Rhizosphere.
7. Symbiont.
8. Ectomycorrhiza.
9. Humus.
10. Denitrification.
11. Associative symbiosis.
12. Azolla.
13. Amensalism.
14. Angular leaf spot of cotton.
15. Luminescent bacteria.

(10 × 3 = 30 marks)

**Turn over**

**Section B**

*Answer atleast **five** questions.*

*Each question carries **6** marks.*

*All questions can be attended.*

*Overall ceiling 30.*

16. Biofertilizer.
17. Role of microbes in ruminants.
18. Phosphorus cycle.
19. Soil fertility test.
20. Write on any two viral plant diseases.
21. Symbiotic nitrogen fixation.
22. Mycorrhiza.
23. Microbe-animal interactions.

(5 × 6 = 30 marks)

**Section C**

*Answer any **two** questions.*

*Each question carries 10 marks.*

24. Explain various factors affecting microbial populations in soil.
25. Explain on microbe-microbe interactions.
26. Explain on Biopesticides and their types and significance.
27. Explain nitrogen cycle.

(2 × 10 = 20 marks)