

**D 90242-G**

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CUCBCSS—UG)

Microbiology

MBG 5D 02—ENVIRONMENTAL MICROBIOLOGY

(2018 Admissions)

Time : Two Hours

Maximum : 40 Marks

*Draw diagrams wherever necessary.*

**Part A**

*All questions to be attended.*

*Each question carries ½ mark.*

1. A free living nitrogen fixing bacteria is :  
(Nitrosomonas, Nitrobacter, Rhizbium, Azotobacter)
2. The immediate surface of the plant root interacting with soil is called \_\_\_\_\_.
3. The mycorrhiza is the association of \_\_\_\_\_ with plant roots.
4. Define Sewage.
5. Name one waterborne viral disease.
6. Indicator organism used for faecal pollution of water is \_\_\_\_\_.
7. Name one airborne bacterial disease.
8. Expand CFC.
9. The earthworm used for vermicomposting is \_\_\_\_\_.
10. What is the composition of biogas ?

(10 × ½ = 5 marks)

**Part B**

*All questions can be attended and overall ceiling.*

*Each question carries 2 marks.*

11. What is humus ?
12. What is denitrification ? Give one example for denitrifying bacteria.

**Turn over**

13. What is superchlorination ?
14. MPN determination.
15. What are aerosols ?
16. Define acid rain.
17. Define Biomagnification.

(5 × 2 = 10 marks)

### Part C

*All questions can be attended and overall ceiling.  
Each question carries 5 marks.*

Write notes on :

18. Rhizosphere effect.
19. Disinfection of potable water.
20. Hepatitis B infection.
21. Greenhouse effect.
22. Cholera.

(3 × 5 = 15 marks)

### Part D

*All questions can be attended and overall ceiling.  
The question carries 10 marks.*

Write essays on :

23. Discuss the steps involved in municipal sewage treatment.
24. Write a note on different methods used for composting.

(1 × 10 = 10 marks)