

(Pages : 3)

N – 4244

Reg. No. :

Name :

First Semester B.Sc. Degree Examination, June 2022
Career Related First Degree Programme under CBCSS
Group 2 (a) Botany and Biotechnology
BB 1171 : MICROBIOLOGY
(2019 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** the questions in a word or one or two sentences. Each question carries **1** mark.

1. Comment on Azospirillum.
2. What is meant by Slant culture?
3. Define biovars.
4. Explain LB medium.
5. What is mesophiles?
6. What is an autoclave?
7. Define bacteriophage.
8. What is CFU?
9. What is a pure culture?
10. What is cold sterilization?

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** questions. Each questions carries **2** marks.(Answer not to exceed one paragraph)

11. What is the importance of E-coli?
12. Identify the contributions of Louis Pasteur.
13. Explain aerobic respiration.
14. What is Total aerobic count?
15. Explain indicator organisms.
16. What is dynein?
17. Explain the generation time.
18. What is Biofuel?
19. What is Bayer's junction?
20. Explain turbidimetric growth measurement.
21. What is meant by Inoculate?
22. Give note on MacConkey Agar.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. Each questions carries **4** marks. (Answer not to exceed 120 words)

23. What is a culture media? Give note on different components.
24. Write a short note on Bergey's manual

25. Write a short note on bacterial growth curve.
26. Give a short note on viral culture.
27. Describe the features of extremophiles with examples.
28. Give a note on nitrogen cycle.
29. Differentiate between sterilization and disinfection..
30. Write a note on structure of eukaryotic cell.
31. Give short note on the lysogenic life cycles of a bacteriophage.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. Each questions carries **15** marks. (Answer not to exceed **three** pages).

32. What are viruses? Give a detailed note on different types and structure of viruses.
33. Write an essay on ultra-structure and functions of flagella.
34. Describe in detail different types of sterilization techniques.
35. Write an essay on different methods used for bacterial enumeration.

(2 × 15 = 30 Marks)
