

B.Sc. - BOTANY
I Semester End Examination March/April 2022
MICROBIAL DIVERSITY AND TECHNOLOGY

Course Code: BOT1DSC01
Time: 2 hours

QP Code: 1018
Total Marks: 60

Instructions: 1. Answer all questions.
2. Draw diagrams wherever necessary.

SECTION - A

I. Answer any FIVE of the following:

5 x 2 = 10

1. Mention any four contributions of Antony Von Leeuwenhoek.
2. Name the microbes present in water.
3. What is basal media? Give an example.
4. What are lithotrophs?
5. Name the microbial culture collection centres.
6. What are viroids?
7. What are endospores?
8. Mention the causal organism and symptoms of Grain smut of Sorghum.

SECTION - B

II. Answer any FOUR of the following:

4 x 5 = 20

9. Features of Whittaker's Kingdom of classification.
10. Gram's staining.
11. Chemical methods of sterilization.
12. Brief account on Pasteurization.
13. Structure of SARS COV-2.
14. Apothecium of lichens.

SECTION - C

III. Answer any THREE of the following:

3 x 10 = 30

15. Working principle and applications of SEM and TEM.
16. Explain microbial growth and measurement.
17. Explain the structure and multiplication of T4 bacteriophage.
18. General characteristics of bacteria.

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QUESTION PAPER**

19. a) Preservation methods of microbial cultures

b) AM fungi and their significance

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