

(MCB1SK)

(1319-1K)

**B.Sc. DEGREE EXAMINATION,
FEBRUARY 2023.**

Regular

First Year – First Semester

Part II – MicroBiology

**Paper -I – INTRODUCTION TO MICROBIOLOGY
AND MICROBIAL DIVERSITY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE of the following

1. **Mycoplasma?**
2. **Lyophilization?**
3. **Pure Culture methods?**
4. **Simple staining method?**
5. **Diauxic growth?**
6. **Rickettsiae?**

7. Viable plate count?
8. Cyanobacteria?

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE of the following

9. Explain the classification of bacteria as per bergey's manual of systematic bacteriology.
10. Give an account on the contribution of Edward Jenner, Robert Koch and Louis Pasteur in the field of Microbiology?
11. Discuss various Physical methods of sterilization?
12. Describe methods involved in preservation of Microbial cultures?
13. Explain the working principle and advantages of electron microscopy?
14. Discuss various nutrient media used for microbial culturing?
15. Write an account on types of Microbial cultures and add a note on microbial growth kinetics?
16. Discuss various methods involved in measuring bacterial growth?

17. Explain the Ultrastructure and chemical composition of Bacteria?
 18. Write an account on the cell wall of bacteria?
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