

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPP-1082**

**M.Sc. (Previous) Examination, 2022**

## **MICROBIOLOGY**

Paper - I

**(General Microbiology, Bacteriology and Virology)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

### **Section-A**

**(Marks : 2 × 10 = 20)**

**Note :-** Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

### **Section-B**

**(Marks : 5 × 5 = 25)**

**Note :-** Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

### **Section-C**

**(Marks : 10 × 3 = 30)**

**Note :-** Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

### **Section-A**

1. (i) What are Unculturable Bacteria ?
- (ii) Define Prokaryons.

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- (iii) Define Lithotrophs.
- (iv) Write names of *two* Antimicrobial Agents.
- (v) Write *two* names of Probiotic Bacteria.
- (vi) Write *two* names of Obligatory Intracellular Parasites.
- (vii) What do you understand by a PFU Count ?
- (viii) Define ICTV.
- (ix) What do you understand by a Lytic Cycle ?
- (x) What is the function of Phage tail pins ?

### **Section-B**

2. Write a short note on Bergey's Manual.

*Or*

What are the major five differences between Prokaryotic and Eukaryotic cells ?

3. Write a short note on synchronous growth of Bacteria.

*Or*

Write a short note on Anaerobic Cultivation.

4. Write a short note on Nostoc.

*Or*

Write a short note on Treponema.

5. Write a short note on Baltimore classification of Viruses.

*Or*

Write a short note on RNA viruses.

6. Explain briefly about Bacteriophage Typing.

*Or*

Write a short note on TMV.

**Section–C**

7. Explain in detail about Phylogenetic Classification.
8. Write a detailed note on types of media for the Cultivation of Bacteria.
9. Write a detailed note on Archaeobacteria.
10. Write a detailed note on Nomenclature and Classification of Viruses.
11. How are lytic and lysogenic cycles regulated in phages ?