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Sl. No.

21MBL1C1L

M.Sc. I Semester Degree Examination, April /May - 2023

MICROBIOLOGY

**Paper No. MB - DSC1 : Virology and Bacteriology
(CBCS)**

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with **Question No.1 (Q1) Compulsory**. Each question carries equal marks.

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|----|----------------------------------------------------------------|----|
| 1. | Explain various criteria used in prokaryotic classifications. | 14 |
| 2. | Write a brief note on : | |
| | (a) Endospores | 5 |
| | (b) Archaeobacteria | 5 |
| | (c) Molecular methods | 4 |
| 3. | Describe Ultrastructure of bacteria and its virulence factors. | 14 |
| 4. | Explain briefly : | |
| | (a) Micro and Macro nutrients for bacterial growth. | 7 |
| | (b) Synthetic media and its components. | 7 |
| 5. | What are virus ? Explain its nomenclature and classifications. | 14 |
| 6. | Write an account on Viral Capsids and their arrangement. | 14 |
| 7. | Write a short note on : | |
| | (a) Significance of <i>Spirulina</i> | 5 |
| | (b) Rickettsia | 5 |
| | (c) Actinomycetes | 4 |
| 8. | Give an account of Sub Viral Particles. | 14 |

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