

B.Sc. CBCS Pattern Semester-I
MIC-01 - Microbiology Paper-I (Fundamentals of Microbiology)

P. Pages : 2

Time : Three Hours



GUG/W/23/11558

Max. Marks : 50

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1. Describe in detail theory of abiogenesis and biogenesis? **10**
- OR**
- i) Give the account of scope of microbiology? **2½**
- ii) Describe in detail branches of microbiology. **2½**
- iii) Discuss contribution of Louis Pasteur? **2½**
- iv) Describe Koch Postulates? **2½**
2. Discuss in details Gram positive bacterial cell wall? **10**
- OR**
- v) Describe fluid mosaic model? **2½**
- vi) Discuss 70S ribosome? **2½**
- vii) Differentiates between eukaryotic and prokaryotic cell? **2½**
- viii) Draw well labelled diagram of endospore. **2½**
3. Describe in detail bacterial taxonomy by Whittaker? **10**
- OR**
- i) Give the account of general concept of taxonomy. **2½**
- ii) Discuss Haeckel classification of taxonomy? **2½**
- iii) Discuss numerical taxonomy. **2½**
- iv) Describe basic idea for r-RNA homology and sequencing? **2½**
4. Describe in detail Lytic cycle of T4-phage? **10**
- OR**
- v) Give the account of cultivation of animal viruses? **2½**
- vi) Discuss the group of archaeobacteria? **2½**
- vii) Discuss structure of viruses? **2½**
- viii) Describe types of molds reproduction. **2½**

5. Write in very short any ten.

- i) Who is the old Father of microbiology? **1**
- ii) What is oil eating bacteria? **1**
- iii) What is Tyndallization? **1**
- iv) What is Plasmid? **1**
- v) What is Capsule? **1**
- vi) What is Endospore? **1**
- vii) What is Genus? **1**
- viii) Who discovered four kingdom system. **1**
- ix) What is Monera? **1**
- x) Write two name of DNA virus? **1**
- xi) What is LHT system? **1**
- xii) What is Icosahedral symmetry? **1**
