

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 archaebacteria? **2½**
- vii) Discuss structure of viruses? **2½**
- viii) Describe types of molds reproduction. **2½**

5. Write in very short any ten.

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| 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 |
