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M.Sc. II Semester Degree Examination, September/October - 2022

MICROBIOLOGY

21MBL2C5L : Microbial Genetics and Molecular Cell Biology

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** questions. **All** questions carry **equal** marks.

1. Write a detailed note on Cytoskeleton and Cell movements. 14
2. Discuss in detail Post-transcriptional modifications. 14
3. Explain :
 - (a) Operon concept 7
 - (b) DNA repair mechanism 7
4. Lytic and lysogenic phase of lambda phage 14
5. Explain :
 - (a) Types of Mutation 7
 - (b) Transposable elements 7
6. Explain :
 - (a) Features of genetic code 7
 - (b) DNA replication 7
7. Write in detail :
 - (a) DNA restriction 7
 - (b) Types of transduction 7
8. Explain :
 - (a) Cell cycle check points 5
 - (b) Vegetative incompatibility 5
 - (c) Mutagenic agents 4

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