

Second Year M.Sc. MLT Degree Supplementary Examinations March 2025
(Biochemistry)
Paper V - Molecular Biology & Immunology

Time: 3 hrs.

Max. marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays:

(10x10=100)

1. Discuss the regulation of gene expression in prokaryotes and eukaryotes.
2. Discuss the process of translation. Explain protein targeting. (6+4)
3. Explain the technique of immunolectrophoresis.
4. Describe cell cycle. Add a note on cell cycle checkpoints (5+5)
5. Define cloning. Add a note on its application in medicine. (2+8)
6. Describe nephelometric immunoassay.
7. Describe preparation, storage and standardisation of antisera.
8. Explain the mechanism of autoimmunity and add a note on systemic autoimmune diseases. (4+6)
9. Explain cells and organs of immune system.
10. Describe the Major Histocompatibility Complex.
