

QP Code: 201383

Reg. No.....

**Second Year M.Sc. MLT Degree Supplementary Examinations March 2024
(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 structure and functions of immunoglobulins. (6+4)
2. Describe the principle and technique of radio immunoassay. (5+5)
3. What are cytokines. Write in detail about interleukins. (3+7)
4. What are antigens. Discuss the factors affecting antigenicity. (5+5)
5. Describe the various phases of cell cycle and add a note on cell cycle checkpoints. (5+5)
6. Define telomere. Discuss about telomerase enzyme and add a note on its clinical importance. (3+7)
7. What are vectors. Discuss the various types of vectors used in recombinant DNA technology. (3+7)
8. The mechanisms of autoimmunization and add a note on systemic auto immune diseases. (4+6)
9. The principles of heredity. Discuss about autosomal recessive inheritance with examples. (3+7)
10. Mention the amplification techniques. Describe the polymerase chain reaction technique and its clinical applications. (4+6)
