

QP Code: 201383

Reg. No.....

**Second Year M.Sc. MLT Degree Regular/Supplementary Examinations
July 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. What is genetic code. Enumerate the salient features of genetic code. (1+9)
2. Discuss about the DNA repair mechanisms.
3. Write briefly on
 - a) Spliceosome
 - b) Reverse transcriptase (5+5)
4. What are vectors. Discuss various types of vectors which can be used in recombinant DNA technology. (1+9)
5. Describe the prenatal diagnosis of genetic disorders.
6. Explain the structure and functions of immunoglobulins.
7. Briefly describe complement system.
8. Mention the various immunoassay techniques. Explain ELISA. (5+5)
9. Explain adaptive immunity. Mention the difference between humoral and cell mediated immunity. (6+4)
10. What are the differences between immunogenicity and antigenicity. Which are the factors that influence immunogenicity. (3+7)
