

QP Code: 201383

Reg. No.....

**Second Year M.Sc. MLT Degree Examinations November 2018  
(Biochemistry)**

**Paper V - Molecular Biology & Immunology**

Time: 3 hrs.

Max. marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(10x10=100)

1. The procedure for DNA recombination.
2. Describe the genetic basis of antibody diversity.
3. Discuss the operon concept of regulation of gene expression.
4. What is transcription. Discuss the process of transcription.
5. Define mutation. Discuss the types of mutation with suitable examples.
6. Mention the causes of DNA damage and discuss about DNA repair mechanisms.
7. What are cytokines. Discuss about Interferons and Tumor Necrosis Factors.
8. What is protein targeting. Add a note on protein targeting defects.
9. Briefly describe the quantitation of antigens and antibodies by immunological reaction in gels.
10. The components of complement system and discuss the classical pathway of complement activation

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