QP Code: 201383 **Reg. No……**

Second Year M.Sc. MLT Degree Regular/Supplementary Examinations
February 2022
(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. Describe the post translational modifications. Write briefly about protein targeting and its significances (5+5)
2. What are natural killer cells. Explain the mechanism of NK cell mediated cytotoxicity. (2+8)
3. Describe the process of transcription in eukaryotes and add a note on post transcriptional modifications (7+3)
4. Name the extreme end of a chromosome. Describe the mechanism by which this part is replicated and write its clinical significance. (1+6+3)
5. Explain somatic gene therapy. Write briefly about the vectors used. (5+5)
6. Define mutation. Discuss the molecular techniques to detect mutation. (2+8)
7. Discuss blotting Techniques.
8. Mention the antigen antibody reaction tests used in diagnostic laboratories. Explain in detail about enzyme linked immunosorbent assay. (3+7)
9. Write briefly on • Ribozymes • Reverse transcriptase (5+5)
10. Describe in detail about the role of adjuvants in enhancing immune response.

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