PAPER - V MOLECULAR BIOLOGY & IMMUNOLOGY

Time: 3 hrs.

- Answer all questions
- Draw diagrams wherever necessary

Essays:

- 1. Explain the steps of polymerase chain. Mention the applications of this technique.
- 2. Explain the post transcriptional modifications.
- 3. Describe the principle and mention the uses of nephelometric immunoassay and western blot
- 4. Describe the vectors used in recombinant DNA technology
- 5. Describe the importance of major histocompatibility complex and compliment system
- 6. Explain the principle of radioimmunoassay. Describe the types of radioimmunoassay and add a note on its applications.
- 7. Explain gene switching and somatic recombination
- 8. Mention the various types of damages caused to DNA and the causative agents. Explain the any two DNA repair mechanisms.
- 9. Explain autosomal recessive and X linked recessive inheritance of diseases with the help of pedigree charts.
- 10. Mention the types of T cells and its functions. Add a note on immunodeficiency diseases.

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Reg . No.....

(10x10 = 100)

Max. marks: 100