Roll No. Total No. of Pages: 01

Total No. of Questions: 08

M.Sc. MLS (Biochemistry) (Sem.-3)
APPLIED MOLECULAR BIOLOGY

Subject Code: MMLT-302-18

M.Code: 76877

Date of Examination: 14-12-22

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries FOURTEEN marks.
- 1. Write a note on:
 - (a) Auto regulation
 - (b) Chromosome mapping.
- 2. Write a note on southern blotting, DNA sequencing, and satellite DNA.
- 3. What are the uses of linkers, adapters, and homopolymer tailing in creating rDNA molecule?
- 4. Explain in detail :
 - (a) Gene libraries
 - (b) Transformation and transfection.
- 5. Explain the applications of recombinant DNA technology in medicines.
- 6. Write a note on:
 - (a) Regulation of gene expression
 - (b) DNA finger printing.
- 7. Explain in detail various tools of genetic engineering.
- 8. Write a note on-isolation, handling, and quantification of nucleic acids. How are cosmids used as vehicle of cloning?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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