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Total No. of Questions: 18

B.Tech. (BT) (Sem.-5)

GENETIC ENGINEERING

Subject Code: BTBT-501-18

M.Code: 78235

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

Answer briefly:

- What is Molecular cloning?
- 2) What do you understand by mutation?
- 3) What are cosmids?
- 4) What is RAPD?
- 5) What do you understand by site directed mutagenesis?
- Give two applications of polymerase chain reactions.
- Give examples of gene therapy.
- Give names of enzymes involved in recombinant DNA technology.
- 9) What are high-throughput techniques?
- Elaborate YAC.

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SECTION-B

- Write a brief note on genetic engineering guidelines.
- Explain basics of restriction mapping of DNA fragments.
- Write basic steps involved in DNA and protein sequencing.
- 14) What are various processes for detection of protein-protein interactions?
- What are molecular markers? Give their significance.

SECTION-C

- Write a detailed note on DNA finger printing.
- gies I 17) Give a detailed account about expression strategies for heterologous genes in bacteria and veasts.
- 18) Write brief notes on :
 - a) DNA sequencing
 - b) Viral vectors

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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