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(20721)

Roll No. ....

B.Sc.(Biotech.)-II Year

## NS-3469 (CV-II)

**B.Sc. (Biotechnology) Examination,**

**June-2021**

**RECOMBINANT DNA TECHNOLOGY**

**(B-206)**

**B.Sc. (Bio-Tech.)**

**Time : 1½ Hours ] [Maximum Marks : 50**

**Note :** Answer any **two** questions. **All**

questions carry equal marks.

1. Write in detail about PCR, its basic principle, different types and its applications.
2. What is CDMA? Brief about procedure for CDMA library preparation and its uses.

3. Write short note on:
  - (a) Immuno screening,
  - (b) Molecular probes
  - (c) BAC
  - (d) DNA micro arrays
4. Write detailed note on the following
  - (a) Gel Electrophoresis
  - (b) Restriction Enzymes
5. Write in detail about DNA sequencing Methods from beginning to recent.
6. Write explanatory notes on the following:
  - (a) Site directed mutagenesis
  - (b) In situ hybridization
  - (c) ELISA
7. Illustrate the procedure for Southern blotting technique and its applications.

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8. Write note on the following

(a) Western blotting

(b) Expression vectors

9. What is recombinant DNA technology?

Discuss its uses in various fields of biology.

10. Write detailed note on the followings:

(a) Role of **Viruses as Vectors**

(b) Role of Various types of **enzymes**

used in recombinant DNA technology