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# B.Sc.(BT) (2013 to 2017) (Sem.-4) RECOMBINANT DNA TECHNOLOGY

Subject Code: BSBT-206 Paper ID: [F0219]

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.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

# section-A ucleases.

## Q1. Define:

- a) Restriction Endonucleases.
- b) Primer.
- c) Cloning vector.
- d) Real time PCR.
- e) Genetic Map.
- f) Genetic Markers.
- g) Genomic library.
- h) Phagemid vectors.
- i) Site specific Recombination.
- j) Blue White Selection.

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### **SECTION-B**

- Q2. Write about the frequency of occurrence of restriction enzyme sites.
- Q3. What is YAC? Discuss its features.
- Q4. Write a note on Molecular markers.
- Q5. Discuss about Automated Chromosome Sorting.
- Q6. List steps for construction of genomic library.

## **SECTION-C**

- Q7. Elaborate on Properties and Construction of *E.coli* Plasmid Vectors.
- Q8. What are types of PCR and its applications?
- Q9. Elaborate on Production of Recombinant proteins in *E.coli*.

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