Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(BT) (2014 to 2017) (Sem.–4)

RECOMBINANT DNA TECHNOLOGY

Subject Code : BSBT-206

M.Code : 47049

Time : 3 Hrs. Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

Q1. Define :

a. Linkers and adapters.

b. Sticky ends and flush ends

c. Expression vectors

d. Nested PCR

e. Chromosome walking

f. Molecular maps

g. Cosmids

h. Human genome project

i. Targeted gene therapy

j. Homopolymeric tailing

SECTION-B

Q2. What are the types and properties of restriction enzymes?

Q3. Write a note on artificial chromosomes.

Q4. Discuss technique for PCR product analysis.

Q5. Write a note on yeast vectors.

Q6. List properties of a good vector.

SECTION-C

Q7. Elaborate the steps involved in Genomic Library Construction.

Q8. What are molecular markers? Discuss different types and their application.

Q9. Write about different types and applications of PCR and its limitations.

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.