Exam. Code : 107406
Subject Code : 1690

B.Sc. (Bio Technology) 6th Semester
rDNA TECHNOLOGY-B
Paper : BT-I

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Attempt ***five*** questions in all, selecting at least **one** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. Discuss the role of promoter, cassettes and gene fusion.

2. Explain pET280, pGEX in detail.

SECTION—B

3. Discuss different strategies for gDNA cloning-adaptor linker methods.

4. What is cDNA library ? Use adaptor linker methods to synthesize cDNA libraries.

SECTION—C

5. What is polymerase chain reaction ? Describe applications in detail.

6. What is microarray technology ? Discuss various applications.

SECTION—D

7. Describe Phage display and selection of mutant peptides using *dug ung* mutants.

8. Describe Sangers methods of sequencing in detail.