

Exam. Code : 107406

Subject Code : 1776

B.Sc. Bio-Technology 6th Semester

rDNA TECHNOLOGY-B

Paper—BT-1

Time Allowed—2 Hours]

[Maximum Marks—40

Note :— Attempt any **FOUR** questions. All questions carry equal marks.

1. Describe the following :—
 - (a) Adaptor
 - (b) Transcriptase
 - (c) TAC
 - (d) X-GAL/IPTG
 - (e) pET20
2. Describe the role of pET20 in gene expression.
3. Explain genomic library preparation by using lambda vectors.
4. Discuss the PCR in detail.
5. Explain microarray with examples.
6. Explain Sangers method for sequencing.
7. Describe the method of cDNA synthesis.
8. Explain the role of linkers in cloning.