Exam. Code : 206602

Subject Code: 4086

M.Sc. Bioinformatics 2nd Semester CONCEPTS IN MOLECULAR BIOLOGY & r-DNA TECHNOLOGY

Paper—BI-521

Time Allowed—Three Hours] [Maximum Marks—75

Note: — Attempt FIVE questions, with at least ONE from each section.

SECTION-A

- I. (a) What is cot curve? Describe its significance.8
 - (b) What are the different banding patterns which can be visualized in DNA?
- II. What are the different enzymes involved in DNA replication in prokaryotes? Write a small note on any one of them.

SECTION—B

- III. What are the different RNA polymerases in prokaryotes? Briefly explain the function of any one of them.
- IV. What is genetic code? Describe its characteristic features.

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SECTION—C

V.	What is a lac operon? How is it regulated?	15
VI.	Write short notes on :-	
	(a) Enhancers	5
	(b) Histone deacetylation	5
	(c) DNA methylation.	5
	SECTION—D	
VII.	What are plasmid vectors? Describe the feature	S O
	a good plasmid vector.	15
VIII.	. Write short notes on :—	
	(a) Random priming methods	5
	(b) Nick translation	5
	(c) Reverse transcription	5

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