

Max. Marks: 60

## Code No: C0302 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations, March/April 2011 MOLECULAR BIOLOGY AND VIROLOGY (BIOTECHNOLOGY)

## Time: 3hours

## Answer any five questions All questions carry equal marks

1.	Explain the steps involved in DNA replication.	[12]
2.	Mention the different classes of RNA & their functions.	[12]
3.	Briefly describe transcription process in eukaryotes.	[12]
4.	Comment on. a) CPG islands b) Disruption of RNA structure & capping	[12]
5.	Write about the molecular mechanism of anti sense RNA in gene regulation.	[12]
б.	Write short notes on a) Transposable elements b) Retro viruses in transformation	[6] [6]
7.	What are ribozymes? Explain the strategies for designing r	ibozymes? [12]
8.	Explain in detail the replication of bacteriphages.	[12]

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