

R07**Code: R7222304**

B.Tech II Year II Semester (R07) Supplementary Examinations, April/May 2013

MOLECULAR BIOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Describe Watson & Crick model of DNA. Explain DNA denaturation.
2. Explain the process of DNA replication in E.coli.
3. What do you mean by "End Replication Problem" in Eukaryotes? Explain the mechanism of action and role of Telomerase.
4. Explain structure & function of the following:
 - (a) Clover leaf model of tRNA.
 - (b) Eukaryotic mRNA.
5. Describe the mechanism and importance of RNA splicing.
6. With labeled diagrams explain the process of protein synthesis in prokaryotes.
7. Explain post translational modifications. Add a note on protein synthesis inhibitors.
8. Classify mutations. Explain the types and action of mutagens.
