

B.Sc. Semester - 5 (CBCS) Examination**December - 2020 (Old Course)****MOLECULAR BIOLOGY AND RECOMBINANT DNA TECHNOLOGY(CORE)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
-

Q.1 .a) Define replication and Write the chemical reaction involved in replication. [7]

b) Write a comparative account on Similarity and differences between replication in prokaryotes and eukaryotes. [7]

Q.2. With well labeled diagrams explain Transcription in prokaryotes. [14]

Q.3. a) Write characteristic features of genetic code. [4]

b) Discuss Mechanism of translation in prokaryotes. [10]

Q.4. Write a detailed note on different types of mutations. [14]

Q.5. Discuss various applications of Recombinant DNA technology. [14]
