



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 3rd Semester Examination, 2020

CC7-MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

Answer any four of the following questions

10×4 = 40

1. Describe the role of various enzymes and proteins involved in DNA replication. 10
2. What is codon-anticodon interaction and what is the initial amino acid in the peptide chain in prokaryotes and eukaryotes? Write briefly about the initiation stages of proteins synthesis. 4+6
3. Discuss the mechanism of transcription in prokaryotes with the help of suitable diagram. 10
4. Discuss with the help of diagram the regulation of lac operon in *E. coli*. 10
5. How transcriptional process in prokaryotes differ from eukaryotic one? 10
6. What is 435 preinitiation complex? Write a short note on spliceosome machinery. 3+7

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