



K23U 1133

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)**

**GENERAL AWARENESS COURSE IN MICRO BIOLOGY
4A13 MCB : Molecular Biology**

Time : 3 Hours

Max. Marks : 40

PART – A

Answer all questions. Each question carries 1 mark :

(1×6=6)

1. Purines.
2. Codon redundancy.
3. Helicase.
4. Transformation.
5. Origins of replication.
6. Chromatin.

PART – B

Answer any 6 questions. Each question carries 2 marks :

(2×6=12)

7. Allolactose.
8. Shine-Dalgarno Sequence.
9. RNA-dependent RNA polymerase.
10. Nucleoid.
11. tRNA.
12. Okazaki fragments.

P.T.O.



13. Topoisomerases.
14. Termination of prokaryotic translation.

PART – C

Answer **any 4** questions. **Each** question carries **3** marks :

(3×4=12)

15. Site specific recombination.
16. Hershey and Chase experiment.
17. RNA processing.
18. D loop and theta replication.
19. Posttranslational processing.
20. Repressible operon.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks :

(2×5=10)

21. Detail the process of transcription in prokaryotes.
 22. How is gene expression regulated in prokaryotes ? Discuss with an example.
 23. Explain the salient features of genetic code.
 24. Discuss the molecular mechanism of DNA recombination.
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