



K21U 1132

Reg. No. :

Name :

IV Semester B.Sc. Degree CBCSS (OBE) Regular Examination, April 2021
(2019 Admission Only)

General Awareness Course in Microbiology

4A13MCB : MOLECULAR BIOLOGY

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark.

(1×6=6)

1. Nucleoid
2. Chromatin
3. Origin of replication
4. Prokaryotic ribosome
5. RNA polymerase
6. Anticodon.

PART – B

Answer **any 6** questions. **Each** question carries **2** marks.

(2×6=12)

7. Chemical and physical properties of DNA
8. Histones-structure and function
9. Transposons
10. Homologous recombination
11. Rolling circle mode of replication
12. Genetic code
13. Termination of transcription in prokaryotes
14. Trp Operon.

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PART – C

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

(3×4=12)

15. Explain D loop and theta mode of replication.
16. Enzymes involved in DNA replication.
17. Transcription in eukaryotes.
18. Translation in prokaryotes.
19. Post translational processing in eukaryotes.
20. Lac operon.

PART – D

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

(5×2=10)

21. Organization of bacterial and eukaryotic chromosome.
 22. Models of DNA replication.
 23. Explain different types of RNA and their functions.
 24. Positive and negative regulation of Operon.
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