K24U 0737

Reg. No. : .....

Name : .....

IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/ Improvement) Examination, April 2024
(2019 to 2022 Admissions)
GENERAL AWARENESS COURSE IN MICROBIOLOGY
4A13MCB : Molecular Biology

Time : 3 Hours Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark. **(6×1=6)**

1. RNA.
2. Anticodon.
3. Pyrimidines.
4. Operon.
5. Histones.
6. DNA replication.

PART – B

Answer **any 6** questions. **Each** question carries **2** marks. **(6×2=12)**

7. Enzymes involved in DNA replication.
8. Chemical properties of DNA.
9. RNA-dependent synthesis of RNA.
10. RNA replicase.
11. Triplet binding.

P.T.O.

12. Attenuation regulation.

13. Polysomes.

14. Codon assignment.

PART – C

Answer **any 4** questions. **Each** question carries **3** marks. **(4×3=12)**

15. Semiconservative replication.

16. DNA supercoiling.

17. Molecular mechanism of site specific recombination.

18. Compare the ribosomal structure in prokaryotes and eukaryotes.

19. Protein folding.

20. Positive and negative regulation.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks. **(2×5=10)**

21. Discuss the various models of DNA replication.

22. Describe the experimental evidence DNA as the genetic material.

23. Explain translation activation of amino acids and the mechanism of protein synthesis.

24. Write an essay on gene regulation by recombination.

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