

D 100632

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER U.G.(CBCSS—UG) DEGREE EXAMINATION
MARCH 2024**

Microbiology

MBG 6B 15(E2)—MOLECULAR BIOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Part A

*Answer all questions.
Each question carries 2 marks.*

1. Soluble RNA.
2. Nucleotide.
3. Z-DNA.
4. Histone.
5. Topoisomerase.
6. Replication Fork.
7. Translocation.
8. Polyploidy.
9. Suppressor Mutation.
10. Ames Test.
11. Trp Operon.
12. Cot Curve.

(Maximum 20 marks)

Part B

*Answer all questions.
Each question carries 5 marks.*

13. Discuss the supercoiling of DNA.
14. Examine various experimental proof related with DNA as the genetic material.

Turn over

15. Discuss the mechanism of DNA replication.
16. What are post transcriptional processing ? Explain.
17. Discuss the structure and functions of histones.
18. Examine the features of genetic code.
19. Critically discuss on Lac operon.

(Maximum 30 marks)

Part C

*Answer any **one** question.
The question carries 10 marks.*

20. Discuss the major DNA repair mechanism with examples.
21. What do you mean by post translational modification ? Discuss.

(1 × 10 = 10 marks)

: