

ANNAI VIOLET ARTS AND SCIENCE COLLEGE
DEPARTMENT OF MICROBIOLOGY
CONTINUOUS INTERNAL ASSESSMENT – (ODD SEM.)
Subject : MOLECULAR BIOLOGY

Class : II B.Sc., MB

Max.Marks : 50

Date : 02.09.2022-FN

Sub. Code: SN23A

Prepared by
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Asst.Prof.

PART A ($5 \times 2 = 10$ Marks)

Answer any FIVE questions

1. Chargaff rule.
2. Z DNA.
3. Inhibitors of DNA replication
4. Renaturation of DNA.
5. Okazaki fragment.
6. Pribnow box
7. Positive supercoil.

PART B – ($2 \times 5 = 10$ Marks)

Answer any TWO questions

8. Write short notes on RNA polymerases?
9. Explain the role of enzymes involved in DNA replication.
10. Relate hyperchromicity and denaturation of DNA.

PART C – ($3 \times 10 = 30$ Marks)

Answer ALL questions

11. Comment on structure of RNA and their functions.
12. Comment on initiation, elongation and termination events in prokaryotic DNA replication.
13. Describe the replication mechanism of phage phiX174.