

**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 × 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 × 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 × 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.