M.Sc DEGREE EXAMINATION,APRIL 2019
I Year II Semester
Molecular Biology and Genetic Engineering

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Z DNA
2. Chargaff's rule
3. Leading strand
4. Ligase
5. pBR322
6. BAC
7. Splicing
8. Patents
9. RAPD
10. PCR
11. TATA box
12. Western Blotting

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Give an account on structure of tRNA.
14. Describe eukaryotic DNA replication with neat diagram.
15. Enumerate the salient features of plasmids.
16. Write an account of the role of intellectual property rights and TRIP rights.
17. Briefly explain the process of DNA finger printing.
18. Write a note on artificial chromosome of yeast.
19. What are restriction endonucleases? Mention their types.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Give an account on Watson and Crick model of DNA.
21. Explain in detail the transcription process in eukaryotes.
22. What are cosmids? How are they used as efficient genetic vectors?
23. Give an account of the rDNA technology in general.
24. Describe the various steps involved in PCR. Add a note on its significance.

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