



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2023

UAZ 5501 – MOLECULAR BIOLOGY

Date: 29-04-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

Section –A

Answer ALL the questions

(10×2=20 Marks)

Write a note on the following

1. Nucleotide.
2. Genetic code.
3. Replication.
4. Repressors.
5. Split genes.
6. tRNA.
7. RNA interference.
8. Gene silencing.
9. Pyrimidine.
10. Apoptosis

Section – B

Answer any FOUR questions

(4×10=40 Marks)

11. Write notes on salient features of DNA.
12. Give an account on transcriptions.
13. Write notes on splicing mechanism
14. Give an account on gene regulation in lac operon.
15. Explain about the genetic imprinting.
16. Explain about the gene transfer technologies.

Section - C

Answer any TWO questions

(2×20=40 Marks)

17. Explain about the DNA replication in prokaryotes and eukaryotes.
18. Write notes on Difference between prokaryotic and eukaryotic translation.
19. Write an essay on gene expression in protein synthesis.
20. Write an essay on various types RNA and their function.

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