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Reg. No	•
Name :	

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024 2021 ADMISSIONS REGULAR

SEMESTER VI - CORE COURSE (ZOOLOGY)

ZY6B11B18 - Biotechnology, Bioinformatics and Molecular Biology

Time: 3 Hours Maximum Marks: 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

- 1. Define molecular probes.
- 2. What is genetic engineering?
- 3. Explain transgenesis.
- 4. Comment on Bt cotton.
- 5. Name any 2 tree drawing programs.
- 6. Name any 2 nucleotide sequence databases.
- 7. Name the scientist who headed the Human Genome Project.
- 8. Explain overlapping genes.
- 9. Explain Chargaff's rule.
- 10. Distinguish between coding and template strand.
- 11. Comment on proteasome.
- 12. What is Shine Dalgarno sequence?

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Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Write a note on nucleic acid hybridisation technique.
- 14. Write a note on RFLP and RAPD markers.
- 15. Give an account on Single cell protein.
- 16. Describe gene therapy and categories.
- 17. Describe the classification of Computational proteomics.
- 18. Explain the methods involved in Computer Aided Drug Discovery.
- 19. Describe the features of Watson and Crick model of DNA.
- 20. Write an account on transposons.
- 21. Describe post translational modifications.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

- 22. Explain the procedure and applications of DNA fingerprinting.
- 23. Explain the substrates and procedure of animal cell culture.
- 24. Explain in detail any 3 nucleotide databases.
- 25. Describe mechanism of eukaryotic transcription.