



K25U 0957

Reg. No. :

Name :

**IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, April 2025
(2020 to 2023 Admissions)**

**GENERAL AWARENESS COURSE IN LIFE SCIENCES (ZOOLOGY) AND
COMPUTATIONAL BIOLOGY**

4A14ZCB : Genomics and Proteomics

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark. **(6×1=6)**

1. What is genomics ?
2. Name the project that aimed to sequence the entire human genome.
3. What is the full form of SNP in genomics ?
4. Which enzyme is used for DNA sequencing ?
5. What is a cDNA ?
6. Define map unit.

PART – B

Answer **any 6** of the following questions. **Each** question carries **2** marks. **(6×2=12)**

7. Comment on DNA typing and mention its applications.
8. Explain Shotgun sequencing method.
9. What is DNA polymorphism ?
10. What is the difference between a genome and a proteome ?
11. Write notes on Taq polymerase.

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12. What is AFLP ?
13. What is recombination frequency ?
14. Comment on GFP.

PART – C

Write short essay on **any four** of the following questions. **Each** question carries **3** marks. **(4×3=12)**

15. Differentiate between ISH and FISH.
16. Comment on Genetic markers.
17. Explain Microarray technique.
18. Principle of Next generation sequencing.
19. Explain Yeast two-hybrid system.
20. Describe PCR.

PART – D

Write essay on **any two** of the following questions. **Each** question carries **5** marks. **(2×5=10)**

21. Comment on sequence specific tags and sequence tagged sites.
 22. Explain Northern and Southern blotting and mention its applications.
 23. Chromatography : basic principles, types and its applications.
 24. Construction of cDNA and genomic library.
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