



K22U 3685

Reg. No. :

Name :

Fourth Semester B.Sc. Degree (CBCSS – OBE – Regular)
Examination, April 2022
(2020 Admission)
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. **(1×6=6)**

1. cDNA.
2. Illumine sequencing.
3. Comparative genomics.
4. What are the types of genetic mapping ?
5. RFLP.
6. What is the basic principle of chromatography ?

PART – B

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

7. SADE.
8. Differences between cDNA library and genomic library.
9. Different types of Blotting techniques.
10. Applications of DNA sequencing.

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11. Genome evolution.
12. Iso electric focusing.
13. What is DNA profiling ?
14. What are the types of DNA polymorphism ?

PART – C

Answer **any 4** questions. **Each** question carries **3** marks.

(3×4=12)

15. Linkage mapping.
16. Explain the applications of Genetic markers.
17. HPLC-MS.
18. SNP.
19. FISH.
20. Steps involved in Southern blotting and its applications.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks.

(5×2=10)

21. Tools and techniques used for studying protein structure.
 22. DNA sequencing techniques.
 23. Polymerase chain reaction.
 24. Microarrays and their applications.
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