



K23U 1134

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)**

**GENERAL AWARENESS COURSE IN MICROBIOLOGY
4A14MCB : Microbial Genetics and rDNA Technology**

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark.

(1×6=6)

1. R plasmid.
2. Lambda phage.
3. Frame shift mutation.
4. Linker and adapter.
5. Humulin.
6. SOS repair.

PART – B

Answer **any 6** questions. **Each** question carries **2** marks.

(2×6=12)

7. Ti plasmid.
8. Extrachromosomal genetic material in bacteria.
9. Genetic exchange in bacteria by transformation.
10. Mitochondrial inheritance in yeast.
11. Nucleosome.

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K23U 1134



12. Restriction endonuclease.
13. Expression vectors.
14. Gene therapy.

PART – C

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

(3×4=12)

15. Different types of plasmids.
16. Mendelian laws.
17. Conjugation.
18. Ames test.
19. Shuttle vector.
20. Blue white screening.

PART – D

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

(5×2=10)

21. Steps involved in rDNA technology.
 22. DNA sequencing.
 23. Transposons.
 24. Lytic versus lysogenic switch of lambda phage.
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