



**K24U 0738**

**Reg. No. :** .....

**Name :** .....

**IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, April 2024**

**(2019 to 2022 Admissions)**

**GENERAL AWARENESS COURSE IN MICROBIOLOGY**

**4A14MCB : Microbial Genetics and rDNA Technology**

Time : 3 Hours

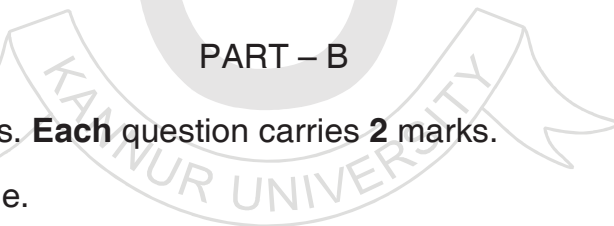
Max. Marks : 40



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

**(6×1=6)**

1. Gene library.
2. Transduction.
3. Frameshift mutation.
4. Cosmid.
5. Phenotype.
6. Exons.



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

**(6×2=12)**

7. Recombinant vaccine.
8. Cloning vectors.
9. Lysogenic cycle.
10. Auxotrophs.
11. Mendelian laws.
12. Conjugation.
13. Excision Repair.
14. DNA polymerases.

P.T.O.

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PART – C

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

**(4×3=12)**

15. Types of plasmid.
16. Griffith experiment.
17. Transgenic animals.
18. Hfr cell.
19. pBR322.
20. BAC Vector.

PART – D

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

**(2×5=10)**

21. Describe genetic exchange in bacteria.
22. Discuss about Cloning vectors.
23. Explain DNA sequencing.
24. Differentiate conjugation and transformation.

