QP CODE: 24027159

24027159

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Microbiology Model III

COMPLEMENTARY COURSE - BT3CMT03 - MOLECULAR BIOLOGY AND RECOMBINANT DNA TECHNOLOGY

2017 Admission Onwards

35A4B319

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Define TMV.
2. Define Nucleotide.
3. Define Histones.
4. Define Muton.
5. Define Trp Operon.
6. What is Consensus sequence?
7. Define DNA Repair.
8. Explain stuffer Sequence.
9. Explain Blue White assay.
10. Define Screening of DNA Libraries.
11. Which is the primer used for the process of PCR?
12. What are biofertilizer?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a note on the polarity of DNA.

14. Define Chromatin.

15. Explain Open Reading Frame.

16. Write a note on repair by Methyl directed Mismatch repair.

17. What is insertional inactivation?

18. What are the uses of RAPD techniques?

19. Write the applications of rDNA technology.

20. Define subunit vaccine.

21. What are the steps involved in creating a Superbug?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Write the experiments demonstrating DNA as the genetic material.

23. Write short note on Lac Operon.

24. Give a note on Recognition Sequence.

25. Give an account on different kinds of gene transfer methods.

(2×10=20)