

**SEMESTER****IV****QP CODE****23MIBO43****P.R. GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA
SEM END EXAMINATIONS APRIL -2025****II B.SC: MICROBIOLOGY: R DNA TECHNOLOGY BIOINFORMATICS & BIostatistics
TIME: 2 HRS**

DATE & SESSION	11.04.2025 & AN	REG NO	2	3	2	H	1	C	2	22	MAX MARKS	50
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SECTION-II

Answer any **THREE** of the following questions. And attempt one question from Each section
part Each question carries **TEN** marks **3X10=30Marks**

PART-A

1. Explain principles of genetic engineering.
2. Discuss application of genetic engineering in medicine and agriculture.
3. Write Sanger's method for DNA sequencing.

PART-B

4. Write any three DNA major DNA sequence databases.
5. Discuss the measurement of central tendency: MEAN, MEDIAN and MODE.
6. Give a note on protein data bases.

SECTION-II

Answer any **FOUR** of the following questions. Each question carries **FIVE** marks

4 X 5=20Marks

7. Restriction endo nucleases.
8. C-DNA libraries.
9. Patents.
10. NCBI.
11. BLAST.
12. Standard deviation.
13. Copy rights.