

- Q3(A) How many types of restriction endonucleases are there? Give their salient features with suitable examples [6]
- Q3(B) Explain the principle for isolation of plasmid DNA from bacterial cells. [6]
- OR**
- Q3(B) Explain genomic DNA isolation from plant leaves with help of schematic diagram. [6]
- Q4(A) Give salient features of pBR322 which has made it the workhorse of recombinant DNA technology. [6]
- Q4(B) What is gene gun technique? Where is it used? What are its advantages and disadvantages? [6]
- OR**
- Q4(B) Explain Maxam and Gilbert's method of DNA sequencing. [6]
- Q5(A) Write a short note on RFLP and indicate one of its important applications. [6]
- Q5(B) What is RAPD? Give at least 2 applications. [6]
- OR**
- Q5(B) Explain Yeast 2-Hybrid System with a suitable diagram. [6]
- Q6(A) What is Codon degeneracy? Explain its significance in vector designing. [6]
- Q6(B) What is Molecular Pharming? [6]
- OR**
- Q6(B) Write a short note on 'Recombinant Vaccines'. [6]

***** BEST OF LUCK *****

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