

- (a) Give a concise report of Bacteriophage vectors.
  - (b) Write detailed note on Expression vectors.

OR

- 3 Answer the following: (each of 07 marks)
  - (a) What is genomic library? Discuss strategies of construction of cDNA libraries.
  - (b) What is cDNA synthesis? Describe.

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[Contd....

4 Answer the following: (each of **07** marks)

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- (a) Explain: Microarray.
- (b) Explain Southern hybridization and Northern hybridization in detail.
- 5 Answer the following: (any **two** out of four, each of **07** marks)
  - (a) Write a short note on PCR.
  - (b) Explain DNA sequence by automated method.
  - (c) What is DNA fingerprinting? Explain.
  - (d) What is linkage analysis? Describe.

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