

R09

Code No: D0302

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations, March/April 2011

GENETIC ENGINEERING

(BIOTECHNOLOGY)

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

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1. Describe the construction of cDNA libraries and mention the advantages of cDNA libraries. [12]
2. What are Co-integration and Binary Vectors? Explain. [12]
3. Give an illustrated account of different approaches made for detection of nucleic acids. [12]
4. How do you identify a PCR product? In a particular PCR amplification experiment, the product obtained was shorter than the expected length. Give your comments on the possible reasons. [12]
5. Write a short note on the following:
 - a) Chromosome walking.
 - b) Chromosome jumping.[6+6]
6. Comment briefly on different promoters used for expression in plants. [12]
7. What are Transposons? Explain Transposon tagging with examples. [12]
8. What are Restriction enzymes? Write about their Nomenclature and about the different classes of Restriction enzymes. [12]
