

Code :R7312304

R7

III B.Tech I Semester(R07) Supplementary Examinations, May 2011
GENETIC ENGINEERING
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Discuss the regulatory components of the lac operon system.
2. What does gene amplification mean? How is it different from gene duplication?
3. What properties do plasmids confer on their host cells?
4. Comment on the following:
 - (a) Vectors that are useful for DNA sequencing.
 - (b) Vectors used for construction of genomic libraries.
5. What is the difference between Southern and Northern blotting techniques?
6. Discuss about multiplex PCR.
7. Write short notes on any two:
 - (a) AFLP
 - (b) VNTR sequences
 - (c) Gene chip
8. Comment on:
 - (a) Ex vivo gene therapy
 - (b) In vivo gene therapy.
