Code: 9A23504

B.Tech III Year I Semester (R09) Supplementary Examinations June 2017

GENETIC ENGINEERING

(Biotechnology)

Time: 3 hours Max. Marks: 70

> Answer any FIVE questions All questions carry equal marks

- 1 Write notes on:
 - (a) Lac operon.
 - (b) Repressors & activator.
- 2 Discuss the transcriptional level control mechanisms of gene regulation in eukaryotic cells.
- 3 Write short notes on:
 - (a) Classification of plasmids.
 - (b) Mechanism of bacterial transposition.
 - (c) Applications of transposons.
- 4 Write notes on:
 - (a) Methods of gene transfer.
 - (b) Restriction mapping.
- Write notes on: 5
 - (a) DNA sequencing.
- W.FirstPanker.com (b) Construction of CDNA libraries.
- 6 Write notes on:
 - (a) Design of primers.
 - (b) PCR methodology.
- Write short notes on 7
 - (a) Micro arrays.
 - (b) Applications of molecular markers.
 - (c) SNP's gene clip.
- 8 Describe in detail the production of insulin by r-DNA technology.
