

Code: 9A23403

R09

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2015/2016

GENETICS & MOLECULAR BIOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Expand Mendelian law with experiments.
(b) What is independent assortment?
- 2 Write about chromosome structure and organization.
- 3 Elaborate about:
(a) Coagulation disorders.
(b) Color blindness.
- 4 (a) Explain about various DNA repair mechanisms.
(b) Write about post-translational modifications.
- 5 Discuss about structures of t-RNA, r-RNA & m-RNA.
- 6 Summarize about transcription & their inhibition.
Explain viral DNA replication mechanism.
- 7 (a) Outline about Gal operon.
(b) Explain various methods of sex determination in animals.
- 8 (a) Elaborate various Blotting techniques.
(b) How will you construct cDNA?
