

Code : R7212305

R7

II B.Tech. I Semester(R07) Supplementary Examinations, May/June 2010
GENETICS
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Describe briefly Mendelism with suitable examples.
2. How DNA is organized. Explain elaborately.
3. Describe complete and incomplete linkage with examples.
4. How the three point test cross would help in the determination of map distance in a genetic map. Explain.
5. Discuss the nature of chromosomal abnormalities in clinical syndromes associated with genetic disorders.
6. Explain the ratio of X chromosomes to autosomes and corresponding phenotype in drosophila? Illustrate in tabular form?
7. What is sex influenced Dominance. Discuss its role in relation to male and female hormones?
8. Explain the uniparental inheritance of mutations in extra- nuclear genes in chlamydomonas.
