

II B.Tech I Semester (R07) Supplementary May 2012 Examinations**GENETICS****(Biotechnology)****Time: 3 hours****Max. Marks: 80**

Answer any FIVE questions
All questions carry equal marks

1. (a) Write about modification of Mendel's ratio.
(b) Write about identification of genetic material-with one classical experiment.
2. (a) Write about organization of genetic material in prokaryotes.
(b) Write about Nucleosomes.
3. (a) Write about the concept of linkage.
(b) Write about lysogenic life cycle of bacteriophage.
4. (a) Write about gene mapping.
(b) Write about mitotic crossing over.
5. (a) Write about morphology of chromosome.
(b) Write about special chromosomes.
6. (a) Write about sex determination in plants (Melandrium).
(b) Write about sex factors in bacteria.
7. (a) Write about sex differentiation in humans.
(b) Write about sex linked disorders in humans.
8. (a) Write about extra chromosomal inheritance.
(b) Write about uniparental inheritance in algae.
