

II B.Tech I Semester(R05) Supplementary Examinations, May/June 2010  
GENETICS  
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Explain in detail about quantitative characters & their inheritance. [16]
2. What is the importance of presence of histones in Eukaryotic chromosomes? [16]
3. Explain briefly the process of Transduction in bacteria. [16]
4. How is Tetrad analysis used to detect linkage? [16]
5. Describe the organization of Prokaryotic Genome. [16]
6. Write notes on:
  - (a)  $F^-$  and  $F^+$  bacteria
  - (b) Hfr and F-conjugation. [8+8]
7. Write in detail about Down's syndrome and trisomy anomololies. [16]
8. Illustrate uniparental inheritance in algae. [16]

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