

CODE NO: R050212304
SET NO. 4

2007 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH I SEMESTER REGULAR EXAMINATIONS
GENETICS
(BIO-TECHNOLOGY)

NOVEMBER 2007

MAX MARKS: 80
TIME: 3 HOURS

*Answer any FIVE Questions
All Questions carry equal marks*

1. *Using suitable examples explain how typical dihybrid ratios are altered due to gene interactions* [16]
2. *Write short notes on:*
 - (a) *Histones*
 - (b) *Euchromatin.* [8+8]
3. *What are Hfr strains? Discuss their importance in conjugation.* [16]
4. *What is the relationship between frequency of recombination & genetic map distance?* [16]
5. *Write notes on:*
 - (a) *Burkitt's lymphoma*
 - (b) *Cri-du-chat Syndrome.* [8+8]
6. *What are Hfr strains. Describe the conjugation involving Hfr.* [16]
7. *Write in detail about sex linked disorders.* [16]
8. *Write notes on:*
 - (a) *variegated phenotype*
 - (b) *CO2 sensitivity in drosophila*