CODE NO: R050212304 SET NO. 1

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. What is meant by Epitasis? Explain citing suitable examples. [16]
- 2. Write notes on:
- (a) Histones & Non-Histones
- (b) Heterochromatin & Euchromatin. [8+8]
- 3. What are HFr strains? Discuss their importance in conjugation. [16]
- 4. With respect to gene mapping explain the following terms:
- (a) Interference & Coefficient of coincidence
- (b) Gene order & gene distance. [16]
- 5. Write the importance of Giant chromosomes in Drosophila. [16]
- 6. Describe the conjugation between F- and Hfr strains. [16]
- 7. What is Marylon hypothesis ? Write in detail. [16]
- 8. Differentiate between extra nuclear and nuclear inheritance.