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. Write short notes on:

(a) Codominance

(b) Incomplete dominance

(c) Dominance

(d) Multiple alleles.   [4+4+4+4]

2. Write short notes on:

(a) Prokaryotic genetic material

(b) Eukaryotic genetic material.   [8+8]

3. Explain in detail the cytological proof of Crossing over.   [16]

4. How is a Two - point testcross used for recombination mapping? [16]

5. Loops indicate genetic expression - explain in detail.   [16]

6. Describe conjugation mating experiments.   [16]

7. Write about sex chromosomes in humans.   [16]

8. How does chloroplasts inheritance differs from nuclear inheritance.