

2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH I SEMESTER REGULAR EXAMINATIONS
METABOLIC ENGINEERING
(BIO-TECHNOLOGY)

NOVEMBER 2005

TIME: 3 HOURS
MAX MARKS: 80

Answer any FIVE Questions
All Questions carry equal marks

MARK [5*16]

1. Write short notes on:

(a) Feed back repression

(b) CAMP

2. Describe in detail the secondary screening involved in strain selection with example.

3. Detail the regulation of Enzyme synthesis at Fermentor level.

4. Define Bioconversion and describe in detail the conversion of insoluble substances by sequential bioconversion.

5. Describe induction and Repression phenomena in yeast, citing Alcohol production as example.

6. Describe in detail the various modes of diffusion?

7. What is enzyme inhibition and detail the various modes of enzyme inhibition.

8. Distinguish and differentiate concerted feed back regulation and cumulative feed back regulation with examples.