Or Askok Nadal

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST 1 EXAMINATION- Sept. 2018

B.Tech. VIIth Semester

COURSE CODE: 11B1WBT833

MAX. MARKS: 15

COURSE NAME: INDUSTRIAL ENZYMES

COURSE CREDITS: 04

MAX. TIME: 1Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q1 Define the following terms:
 - A) Prosthetic group
 - B) Turnover number
 - C) Apoenzyme
 - D) V_{max} (maximum velocity)

(2) CO -I

- Q 2 What are the major factors affecting the rate of an enzymatic reaction? Describe the effects of substrate concentration on enzyme activity. (3) CO-I
- Q 3 Explain competitive and uncompetitive inhibition and their effect on enzyme kinetics. Give one example for each. (4) CO -II
- Q 4 What are the two basic assumptions for Michaelis -Menten equation? Explain diagrammatically. (3) CO-II
- Q5 Describe the various strategies used by enzymes to catalyze the reaction? Give one example for each. (3) CO-I