

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
TEST -2 EXAMINATION, OCTOBER 2018

B.Tech (Biotechnology) 7<sup>th</sup> Semester

Dr. Ashok Kumar

Course Code: 11B1WBT833

MARKS: 25

Course Name: Industrial Enzymes

Course Credits: 03

TIME: 1.5 Hr

MAX.

MAX.

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*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated in square brackets against each question*

Q 1 Discuss the different criteria of enzyme immobilization onto a support. (3) COIV

Q 2 What are diagnostic indicators? Give two examples of medically important enzymes. (3) COIV

Q 3 Discuss the role of enzyme in dairy product manufacturing. Explain with example. (4) COV

Q 4 Discuss the various steps involved in starch conversion. Explain briefly the role of various enzymes in saccharification. (5) COV

Q 5 Why covalently immobilized enzymes are more stable than physically adsorbed? Describe the types of covalent immobilization. (5) COIV

Q 6 Discuss the role of following enzymes in the industry. (5) COIII

(i) Cellulase,

(ii) Lactase,

(iii) Pectinase

(iv) Esterase

(v)  $\beta$ -Glucosidase

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