

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2015

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

COURSE CODE: 10B13BT832

MAX. MARKS: 15

COURSE NAME: INDUSTRIAL ENZYMES

COURSE CREDITS: 3

MAX. TIME: 1 HR

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

**Section - A (5 Marks)**

**1. Match the following one's**

(5 x 0.5 =2.5 M)

<u>Enzyme</u>	<u>Therapeutic Use</u>
(a) Hyaluronidase	(i) Cyanide poisoning
(b) $\beta$ -lactamase	(ii) Inflammation
(c) Collagenase	(iii) Heart attack
(d) Rhodanase	(iv) Penicillin allergy
(e) Trypsin	(v) Skin Ulcers

**2. Fill in the blanks**

(5 x 0.5 =2.5 M)

- Write the abbreviation of "ABTS", which is used as a mediator for LMS, used in pulp and paper industry -----
- Mention the steps used in manufacturing of leather -----
- Name any company names, which involved in probiotics production -----
- Mention the reason for "Chill haze" in beer -----
- Mention the mechanism by which Lactobacilli helps in silaging step of animal fodder -----

**Section -B (4 Marks)**

- Mention the objectives of protein hydrolysis and write the methods used for debittering of protein hydrolysates? (2 M)
- Write briefly about the problems associated with animal feed and what is the principal rationale behind usage of enzymes in animal feed? (2 M)

**Section- C (6 Marks)**

**5. Discuss in detail about the following ones**

- Advantages of phytase utilization in animal feed production (2 M)
- What is "Resistant starch"? How it will be helpful in animal nutrition? Mention the different types of "Resistant starch"? (2 M)
- Mention the different applications of yeast lysing enzymes and what is the mechanism action of yeast lysing enzyme systems? (2 M)

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