JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2016

BTDD/ M.Tech 2nd Semester

COURSE CODE: 14M11BT211

MAX. MARKS: 15

COURSE NAME: Industrial Biotechnology

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. Xxxxxxxxxxxxxxxxxxxxx

(1) Match the following one's   (3 Marks)

Enzyme	Therapeutic use
(a) Collagenase	(i) Inflammation
(b) Rhodanase	(ii) Skin Ulcers
(c) Trypsin	(iii) Cyanide poisoning
(d) Ribonuclease	(iv) Anti-Viral
(e) Lysozyme	(v) Antibiotic
(f) Hyaluronidase	(vi) Heart Attack

(2) Mention the answers for the following one's   (1x4=4 Marks)

(i) Mention the equation used to calculate the degree of cell disruption "A"?

(ii) Name scientists, who proposed the Fed-batch fermentation?

(iii) Name the enzyme which differentiates homo- and hetero- fermentive lactic acid bacteria?

(iv) Who discovered the antibiotic "Streptomycin"?

(3) Write the answers for the following one's in 5-10 line's   (2 x 4= 8 Marks)

(i) Write the biotechnological advantages of SSF over SmF?

(ii) What is G+C ratio? Write the formula used to calculate the G+C ratio? For which classification, this will be used and how those classified according to this ratio?

(iii) Mention the important characteristics of microbes used in Industrial Biotechnology?

(iv) Mention the names of building blocks of Industrial Biotechnology?

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