JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

M.Tech-II Semester (BT)

COURSE CODE (CREDITS): 14M11BT211 (03)

MAX. MARKS: 15

COURSE NAME: Industrial Biotechnology

COURSE INSTRUCTORS: Dr. Garlapati Vijay Kumar

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	Marks
Q1	Demonstrate the different events that happened for proposing the concepts of	3
	"Magic Bullet" and "Fed-batch fermentation" as a part of Historical	
	perspectives under "Industrial Biotechnology" research domain?	
Q2	Explain the major characteristics of "Secondary metabolites" which make	3
	major attention to look after the success stories of "Primary Metabolites"?	
	Emphasize the sequence of events that happened as a part of "Enzyme	
	Inhibitors" success stories under "Industrial Biotechnology"?	
Q3	Differentiate characteristics of the microbial cell cultivation over plant and	3
	mammalian cell cultivations by giving any two examples of Industrial	
	Biotechnological products from each cultivation system?	
Q4	Summarize the concepts of "Submerged" and "Solid-state" fermentations	3
	utilized in the manufacture of biochemical products by	
	comparing characteristics of both the approaches?	
Q5	Describe about the following one's	3
-	(a) Enzymes as therapeutic agents (1.5 M)	
	(b) Enzymes usage in "Biobleaching" and "Fruit and wine Industries" (1.5 M)	
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