JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2025

B.Tech-VI Semester (BT)

COURSE CODE (CREDITS): 20B1WBT631 (03)

MAX. MARKS: 35

COURSE NAME: Manufacturing Process and Industrial Products

COURSE INSTRUCTOR: Dr. Garlapati Vijay Kumar

MAX. TIME: 2 Hours

Note: (a) All questions are compulsory.

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

Q.No	Question	-co-	Marks
Q1	Summarize how endophytes contribute towards the progress of	IV	5
	medicine? Write about the plant selection, isolation, preservation and		
	storage of the endophyes by depicting its life cycle?		
Q2	With a neat flow chart explain the different steps involved in the beer	V	5
	making process by quoting the purpose and activities associated with		
	the each step of the process?		
Q3	Discuss in detail about the "cell-media components", "Elicitors &	IV	5
	Jasmonates" and "Metabolic Engineering approach" towards the		
	enhanced secondary metabolites in plant cell cultures with suitable		
	examples?		
Q4	Tabulate the different "scaling-up measures" used in Industrial	I&II	5
	fermentation by quoting the "opportunities", "weakness" and "Impact		
	on the fermentation" features of each measure? Explain the		
	"cultivation of hairy-root cultures" approaches on Industrial Scale?		
Q5	Describe how "white wine making" process different from "red wine	V	5
	making" process by explaining the different steps involved? Explain		
	the role of "Hops" and "Cork" in the making of "Beer" and "Wine",		
	respectively?		
Q6	Explain the different Process Heuristics Types and guidelines which	III	5
	can aid in the development of a pilot- or large-scale separation and		
	purification process of fermented bioproducts?		
Q7	Write about the following one's	IV&V	5
	(a) Endophytic Fungal Products as Anticancer Agents (2.5 M)		
	(b) Top-fermenting yeasts <i>Vs</i> Bottom-fermented yeasts in Beer		
	making (2.5 M)		