

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

B.Tech-7th Semester (BT/BI)

COURSE CODE (CREDITS): 14B1WBT741 (3)

MAX. MARKS: 25

COURSE NAME: BIO-RESOURCE & INDUSTRIAL PRODUCTS

COURSE INSTRUCTORS: AKN

MAX. TIME: 1.5 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
	<b>Section I</b>		
Q1	a) Name any two plant-derived pharmaceuticals and their sources.	COIII	1
	b) Enlist the major industrial products obtained from Lignin.	COII	1
	c) What is Biocrude? Name the various components present in biocrude.	COII	1
	d) Give an example of bio-sweetner. What are the advantages of bio-sweetners over synthetic sweetners.	COIII	1
	e) Which enzyme is used to curdle milk in cheese production?	COIV	1
	<b>Section II</b>		
Q2	Describe the mechanism of action of probiotics in the human gut. How do probiotics help in preventing antibiotic-associated diarrhea?	COIII	2.5
Q3.	Describe how soil enzyme activity indicates soil health. Write a short note on dehydrogenase enzyme in soil.	COIV	2.5
Q4.	Give a brief account on role of pesticides that affect the soil health and microbial activity.	COII	2.5
Q5.	Name two medicinal plants used for treating digestive disorders. What are secondary metabolites? Give two examples of secondary metabolites found in medicinal plants.	COIII	2.5

Section III			
Q6	Describe the role of animals in the textile industry. Include examples of animals, the types of products obtained from them, their properties, and their industrial importance.	COIV	5
Q7	Write an essay on the industrial and pharmaceutical applications of plant-based biopolymers, highlighting their advantages over synthetic polymers.	COIII	5
<b>Total</b>			<b>25</b>

JUIT TEST-2 EXAMINATION- AUG-2025