JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2025 B.Tech-VIII Semester (BT/BI)

MAX. MARKS: 35

COURSE CODE (CREDITS): 21B1WBT831(03) COURSE NAME: Food Processing and Engineering

COURSE INSTRUCTORS:Dr Anil Kant, Dr Ashok Nadda

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	a. Notoginso the general characteristics of facto acta succession	COII	6
	all twelve genera as per latest classification and segregate seven	. 10	
	genera that have significance with respect to food.	1	
			,
	b.Identify key characteristics, significance and important species and		
	of any three of following genera in food or food environments i)		
	Lactococcus ii) Streptococcus iii) Tetragenococcus iy) Leuconostoc	G YYY	
Q2	a.Describe the general design and working and uses of any three of	Co III	9
	following equipments i) Pulping Equipments ii) Spray dryers 111) V		
er is the term	cone tumbling mixer iv) Tunnel or Bin dryen v) Bowl Centrifuge		
Q3	Attempt any three of following questions	COII	12
	a. What is kozi? identify different types of kozi and the role of kozi		
	in soya or rice based fermented foods. Briefly explain how "tane		
	koji" is prepared.		
	b. Enlist different types of mechanical separations and discuss		
	separation by sedimentation in detail. Calculate terminal velocity		
	of particles of 20 µm in diameter. Given density of particle 500 kg		
	m-3, viscosity of air 1.8x10 5 Nsm-2, density of air 1.2 kg m-3		
	c. Write a detailed note on importance, nutritional contents,		
	organism involved manufacturing process end products and taste		
	and texture of "Natto".		
	d. Write a note on end products formed in Soyu, including the		
	compound that give characteristics taste and flavours (Umami) to		
	sova sauce		
Q.4	What are the basic requirements of packing material? Discuss	CO V	4
Q.T	following food packaging material and or packaging technologies i)		
1	metal ii) glass ii) controlled atmosphere packaging	new merce at	ENERGY S
A B			
Q.5	What guidelines do you need to follow for locating a food processing	CO III	4
- 10	industry?		