JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2024

B.Tech-I Semester (CSE/IT/ECE/CE)			
COUF	RSE CODE(CREDITS):21B1WBT831	MAX. MARKS: 35	
COURSE NAME: Food Processing and Engineering			
COUF	RSE INSTRUCTORS: Dr Anil Kant	MAX. TIME: 2 Hours	
Note: (a)All questions are compulsory.			
(b) Marks are indicated against each question in square brackets.			
(c) The candidate is allowed to make Suitable numeric assumptions wherever required for			
solving	g problems		
Q.1.	O 1		
V	Explain the underlying principles of food preserv	ation including the main factors that	
	contribute to food spoilage. Describe at least three	different types of food preservation	
	methods, focusing on how each method inhibits spo		
Q.2	momous, revusing on new each method minorts spo	nage.	
a.	Enlist advantage of size reduction of raw mater	ials in the food processing industry	
٠.	Mention two key factors with explanation which	h are responsible for most of these	
	advantages.	[3] Co III	
h	•		
U.	b. Describe the general design and working and uses of any three of following equipments i) Hammer mill ii) Roller mill iii) Gravity separator (v) Eyclone separators v) Telescope		
	centrifuge	[6] Co III	
Q.3	Continue	· [o] Co m	
Q.J a.	Give three examples of size reduction in follow	ing classes of food Industry i) Emits and	
a.	a. Give three examples of size reduction in following classes of food Industry i) Fruits and Vegetable processing ii) Cereals and Rulses iii) Spices and plantation crops		
	vegetable processing it) cereals and subsessin) Spice	[3] Co II	
b.	What factors need to be considered to choosing n	[3] CO II	
0.	. What factors need to be considered for choosing plant location and plant layout design of a food processing plant? Do a detailed analysis with suitable examples.		
	rood processing plant: Do a detailed analysis with s		
Q.4		[3] Co III	
a.	Distinguish natural and controlled food fermentation	a citing switchle aroundes	
u.	Distinguish naturaliana controlled food fermentation	[2] Co II	
b.	Write a brief note of the ideal Fermentation envir		
0.	given to ferment or Checking the fermentation:	for contamination and analogo via Tasta	
	Looks, Smell and Touch		
	Looks, Shirif and Toden	[4] Co II	
Q.5	Attempt any three	[3x3 = 9] Co IV, V	
a.			
at mochhere packaging			
b. What would be the effect of the following added ingredient in bread dough? a) cysteine b) ascorbic acid c) gluten.			
<i>0.</i> ™	b) accorbing acid a) glutan		
	oj ascorbio acia oj graicii.		

c. Describe design and working of any two mixing equipment relevant to the food industry.
d. Write a brief note on following thermal processing methods i) Blanching ii) Pasteurization