## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- 2023

M.Sc-III Semester (Biotechnology)

COURS	SE CODE (CREDITS): 22MS1BT311(02)  MAX. MARK SE NAME: Food Biotechnology SE INSTRUCTORS: Dr. Anil Kant and Dr. V. Garlapati  MAX. TIME:	
COURSE INSTRUCTORS: Dr. Anil Kant and Dr. V. Garlapati MAX. TIME: 1 Hour 30 Minutes		
(b)Mark (c) The	n)All questions are compulsory. is are indicated against each question in square brackets. candidate is allowed to make Suitable numeric assumptions wherever req problems	uired for
!	Analyze relationship of water activity of food with i) Microbial food spreservation iii) Food safety. Include suitable examples to prove your arguments and the state of the same state of the s	ments. [3]
b. `	Why is food with water activity < 0.85 considered generally safe?	[1]
	Enlist factors controlling redox potential of food, common redox couple along with their Eh values. Explain redox poising. When is poisonin maximum?  What is Significance of food acidity in deciding food preservation treatme	g of food stuff
Q.3 a.	Interpret all the reasons why air/02 in packaging headspace result in for	od spoilage in a
	Elaborate on gasses or other methods used and include some examples. between i) modified atmosphere packaged food ii) controlled atmosphere	Make a contrast packaged food [3]
ъ.	What changes occur in nitrogenous compounds in food, as results of some main end products formed.	spoilage. Enlist [2]
Q.3 Wi A.	rite about the following one's  Differentiate Yogurt with Yakult in terms of description and benefits	[3]
	Depict the different therapeutic effects of Probiotics with a neat sketch	[1]
Ä.	Probiotics postulated mechanism in case of Cholesterol assimilation Intolerance Types, Products and health benefits of Fermented Dietary fibers	on and Lactose [3] [3]