## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT **TEST -3EXAMINATION- 2023**

## M.Sc-III Semester (BIOTECHNOLOGY)

COURSE CODE (CREDITS), 221 (STREET (BIOTECHNOLOGY)	)
COURSE CODE (CREDITS): 22MS1BT311 (02) COURSE NAME: Food Biotechnology	MAX. MARKS: 35
COURSE INSTRUCTORS: Dr. Anil Kant & Dr. G. Vijay Kumar	
Note: (a) All questions are compulsory.	MAX. TIME:2 Hours
(b) Marks are indicated against each question in square brackets.	
1. Write about the following one's	
(a) What are lactic acid bacteria? Write about different classes or	the bosic of the late
and different genera significant to food fermentation and preserv	title basis of metabolism
(b) Extract out four distinct points, why molds hold a great importation and preserve following molds are the following molds and preserve for the following molds are the fol	ation. [2.5]
ronowing mold / yeast genera. i) Yeast ii) Penicillium and Asper	gillus 12 E1
2. Write about key characteristics, important species and significance	of any two of following
genera of organisms, in food and food environments i) Salmonella	ii) Acetic acid hacteria
iii) Clostridium iv) Tetragenococcus.	
3. Write a detailed note on classical, modern and futuristic method	[5]
Include at least 3 such methods with examples in each category.	
4. What are the different driving forces to use the biotechnologi	[5]
production? Summarize the role of "Flavour enhancers and	Potentiatora" in C 1
formulations?	
5. What are the different stages involved in cheese production by prov	[5]
of cheese? How the starter composition and the starter com	iding the health benefits
of cheese? How the starter composition varies with the "Sw "Camembert" cheeses?	viss", "Mozarella" and
	[5]
6. Classify the "Major Bioactive compounds "of milk by summarizing of different protein and for counting the summarizing the summarizing of different protein and for counting the summarizing the summari	the bio-functionalities
of different protein and fat constituents of milk? Differentiate the fer "SKYR" with "LEBEN"?	mented milk product of
7. Write about the following one's	[5]
- 7	[5]
rating 73 Nature-Identical and Artificial Flavouring s	substances [2.5]
(b) Production forms – DVS vs. bulk starter cultures [2.5]	

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