



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – M.Sc.(MB)-2023
Course Name – Food Microbiology
Course Code - MMBE206
(Semester II)

	I Marks: 60 The figure in the margin indicates full marks. Candida words as far as	Time: 2:30 Hours ates are required to give their answers in their own practicable.]
1.	Group (Multiple Choice T Choose the correct alternative from the following :	ype Question) 1 x 15=15
(i) (ii)	Identify that which of the following is not the pro a) Highly Nutritious c) Anti-toxicity Select the microbe which is applied for the blue of	b) Cytotoxic d) Anti-nutrient
	a) Streptococcus thermophilusc) Penicillium roquefortiName the key bacteria for yogurt is	b) Lactobacillus bulgaricus d) Rhizopus stolonifer
(iv)	a) Streptococcus thermophilusc) Lactobacillus acidophilusName the disease where Probiotics are used in the	b) Leuconostoc citrovorum d) Streptococcus lactis e prevention of
	a) Cardiac diseasec) Digestive tract diseaseSelect the food products having higher acidity and	b) Hypertension d) Lungs infection
	a) Cultured buttermilkc) Bulgarian milkIdentify the heterofermentative bacterial species	b) Cultured sour cream d) Acidophilus milk
	 a) Lueconostoc spp. c) Pediococcus spp. Some streptococci that produce lactic acid also piflavor 	b) Enterococcus spp. d) Streptococcus spp.
	a) Malty c) Salty	b) Bitter and the second to th

re-ative practice for					
(viii) Lactic Acid Fermentation is the most effective pra	b) Preparation of brown bread				
a) Increasing the quantity of 1000	d) Production of beer				
\ F = d =====mintion	u bishost requirements o	f			
(ix) Which statement of food preservation is true	b) Cereals have the highest requirements o	,			
a) Leafy vegetables perish fast due to their high	moisture and soil types				
moisture content c) Cereal can be grown with less labour and	d) All of the mentioned				
	t a given pH?				
yield of food is high (x) Which one will have higher bacteriostatic effect a	b) Tartaric acid				
a) Acetic acid	d) Maleic acid				
c) Citric acid		_			
(xi) A bacterial food intoxication corelates	b) food borne illness caused by the presen	ce of			
 a) illness caused by presence of pathogens 	a bacterial toxin formed in food				
	d) none of these				
c) both (xii) The successful method for the treatment of botul	ism prior to appearance of botulism				
symptoms involve direction of					
a) antibiotic	b) analgesic				
CONTRACTOR OF THE CONTRACTOR O	d) antipyretic				
c) antitoxin (xiii) Analyze the following dye is colourless at acidic p	H and becomes red at basic ph				
a) Methyl red	b) Thymol blue				
) DI I bab alain	d) Phenol red				
(xiv) Select the method is useful for isolation and deter	ction of organisms having the ability to				
produce organic acids					
a) Crowded plate technique	b) Auxanographic technique				
c) Enrichment Culture technique	d) Indicator dye technique				
(xv) Categorize the following which shows the zone of inhibition when a particular organism is					
grown on a Petri plate					
a) Growth Factor producers	b) Antibiotic producers				
c) Organic acid producers	d) Amino acid producers				
Group-B					
(Short Answer Ty		3 x 5=15			
(Short Answer Ty	pe questions;	3 K 3 13			
2. State the role of maturation of microorganisms in so	A SOLICO	(2)			
3. Cite mold-ripened cheese? Give two examples.	y sauce	(3) (3)			
4. Deduce the 3 types of spoilage seen in canned foods		(3)			
5. Summarize the role of rennet in separation of curd 8		(3)			
6. Choose the method of food preservation removes w		(3)			
growth?	are a means for commuting finctional	(3)			
OR					
Write the role of the major gases involved in MAP.		(3)			
		(5)			
Grou	o-C				
(Long Answer Ty		E v C=20			
		5 x 6=30			
7. Justify on the role of thermodurics in food spoilage.					
, and appliage	•	(5)			

Explain the general approaches that are available to reduce the rate of an intit it	
food spoilage	(5)
Explain food intoxication.	
Name the bacterial etiolgical agents of food-poisoning. Describe the strategy involved in control outbreaks of food-poisoning	(5) (5)
Briefly mention the six types of hazards included in Principle 1: Assess Hazard & Risks	(5) (5)
OR	
flow can qPCR be considered more advantageous over normal PCR method in detection of flood borne pathogens	(5)
	Explain food intoxication. Name the bacterial etiolgical agents of food-poisoning. Describe the strategy involved in control outbreaks of food-poisoning Define sterilization. List the various methods of sterilization with suitable examples Briefly mention the six types of hazards included in Principle 1: Assess Hazard & Risks OR How can qPCR be considered more advantageous over normal PCR method in detection of
