



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Sc.(BT)-Hons-2023/B.Sc.(BT)-Hons-2024
Course Name – Food Technology
Course Code - BBT10002
(Semester I)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following :
- (i) Select the microbe which is applied in the blue cheese production
 - a) Streptococcus thermophilus
- b) Lactobacillus bulgaricus

c) Penicillium roqueforti

- d) Rhizopus stolonifer
- (ii) Name the key microorganism present in yogurt
 - a) Streptococcus thermophilus
- b) Leuconostoc citrovorum

c) Lactobacillus acidophilus

- d) Streptococcus lactis
- (iii) Select the main function of soluble fiber in the diet.
 - a) Adds bulk to the diet

- b) Promotes regular bowel movements
- c) Lowers cholesterol levels and regulates blood sugar
- d) Provides structural support in fungi
- (iv) What is the primary function of yeast in brewing?
 - a) Flavoring

b) Clarifying

c) Carbonating

- d) Filtering
- (v) In the event of a food product recall, what is the primary concern of FSSAI?
 - a) Protecting the reputation of the food
- b) Ensuring consumers receive safe products
- business
- and protecting public health
- c) Minimizing financial losses for the food business
- d) Avoiding legal consequences for the food business
- (vi) Identify the process by which FSSAI Act promote international trade of Indian food products
 - a) By banning all imports to protect the domestic market.
- b) By harmonizing Indian food standards with international standards.
- c) By imposing strict export restrictions.
- d) By encouraging food businesses to only sell locally.
- (vii) Choose the primary role of probiotics in the human body
 - a) To provide essential vitamins
- b) To enhance the flavor of food

d) To act as antioxidants

	c) To improve gut health by promoting	d) To act as antioxidants	Barasat, Kelkata -70
(viii)	beneficial bacteria In the processing of probiotics, identify the met their viability and shelf stability.	hod that is commonly used to	ensure
	a) Freeze-drying	b) Boiling	
	a) Adianaumina	d) Fermentation	
(ix)	Which method involves immersing food in a solumoisture and preserve i	ution of salt or sugar to draw	out
	a) Salting	b) Sterilization	
	c) Canning	d) Dehydration	
(x)	Select the preservation method where the food brine to create an acidic environment	is soaked in a solution of vin	egar or
	a) Syruping	b) Pickling	
	c) Fermentation	d) MAP	
(xi)	Write the primary purpose of pasteurization in f	food preservation	
	a) Killing harmful microorganisms	b) Removing water from foo	od
	c) Creating an acidic environment	d) Sealing food in airtight co	
(xii)	Identify the following crops has been widely ger insect pests?		
	a) Wheat	b) Soybean	
	c) Cotton	d) Rice	
(xiii)	Select the maximum allowable level of microbia WHO standards.	Il contamination in drinking w	ater as per
	a) 10 CFU/ml	b) 100 CFU/ml	
	c) 1,000 CFU/ml	d) 10,000 CFU/ml	
(xiv)	Write the primary purpose of withering in the to	ea processing process	
	a) Reducing moisture content c) Eliminating caffeine	b) Enhancing aroma and flad d) Preventing fungal growth	
(xv)	Identify the milk product that is defined as the pwater from milk.	product obtained by the remo	oval of
	a) Ghee	b) Paneer	
	c) Yogurt	d) Khoya	
	Grou	•	
	(Short Answer Ty	pe Questions)	3 x 5=15
3. A	ive examples of some common obstacles faced b Il food preservatives are food additives, but all fo oplain the above statement.	y the food processing industroid od additives are not food pre	ry in India. (3) eservatives". (3)
	rite the key processes that FSSAI follows.		(3)
5. Ex	xplain the term mycotoxin and two safety require	ements for handling this toxing	n. (3)
6. D	issect the role of two antioxidants used in food p		(3)
E۱	valuate the role of the major gases involved in M		og (NAND) (2)
		ounied Atmosphere Fackagii	ig (MAP). (3)
	Grou	n-C	Est. P
	(Long Answer Ty		5 x 6=30
To the second		2- 100 1010)	5 X 0=30
7. (Classify carbohydrates on the basis of their chem	ical structure and asset to	1.0
8. I	Determine the reason behind the significance of priefly describe the process.	determining the total ash co	/. (5) ntent and (5)
	Give a detailed account of dairy processing using	a flamet	1.5

11. Des 12. Ima peri	 List the key components of the biosecurity in food and agriculture with brief explanation Describe the effect of food constituents on food quality. Imagine you are a food scientist tasked with choosing a preservation method for a specif perishable food item. Deduce the considerations you would take into account before making your decision. 	(5) ~ (5) (5)	
Con Higl	OR mpare and contrast pasteurization and sterilization as methods of food preservation. hlight their respective advantages and limitations	(5)	

Page 3 of 3