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## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025
Programme – B.Sc.(FND)-Hons-2022
Course Name – Food Processing and Technology
Course Code - BFNC601
( Semester VI )

Full	Ma	rks		60
	IAIG	1 1/2	•	v

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) Identify the main type of spoilage that occurs in cereals and cereal products.
  - a) Bacterial spoilage

b) Yeast spoilage

c) Fungal spoilage

- d) Viral spoilage
- (ii) A batch of canned beans develops bulging lids. What should be suspected?
  - a) Fungal contamination

b) Clostridium botulinum growth

c) Nutrient deficiency

- d) Oxygen leakage
- (iii) Identify the main pigment responsible for the red color in tomatoes.
  - a) Anthocyanin

b) Chlorophyll

c) Lycopene

- d) Flavonoids
- (iv) What is the minimum sugar content required for a product to be labeled as jam?
  - a) 0.3

b) 0.5

c) 0.6

- d) 0.7
- (v) Name the primary ingredient that gives pickles their sour taste.
  - a) Salt

b) Acetic acid

c) Pectin

- d) Sugar
- (vi) A fruit juice turns brown after extraction. Which enzyme is responsible?
  - a) Amylase

b) Polyphenol oxidase

c) Invertase

- d) Protease
- (vii) Which of the following is the main reason for adding salt to bread dough?
  - a) To improve flavor

b) To enhance color

c) To increase sweetness

- d) To speed up the rising process
- (viii) What is the objective of adding sugar in the preparation of biscuits and cookies?
  - a) To help the dough rise

- b) To provide sweetness and contribute to browning
- c) To make the dough more elastic
- d) To improve the shelf life of the products

(ix)	How would you modify the preparation of a individuals with gluten intolerance?		Replace wheat flour with gluten-free flo	our			
	a) Use wheat flour in smaller quantities	b	like rice flour or almond flour				
	c) Increase the sugar content to balance the taste		d) Use more butter to enhance the texture				
(x)	taste ) Which certification is used to ensure that agricultural products meet national standards for quality?						
	a) FSSAI		ISI				
(xi)	c) Agmark What is the main purpose of Agmark certific	cation?	МРО				
	a) To ensure the safety of processed food     c) To guarantee quality standards in     agricultural products	d)	<ul> <li>b) To promote organic food products</li> <li>d) To monitor the manufacturing process of packaged foods</li> </ul>				
(xii)	What does the FPO (Fruit Products Order) re	egulate	27				
	a) The pricing of fruit products		The quality and hygiene standards of fr products	uit			
(xiii	<ul> <li>c) The packaging of fruit products</li> <li>How can a consumer ensure they are purchastandards?</li> </ul>	d) asing f	The export of fruit products ood products that meet quality				
	a) By checking for FSSAI and ISI certifications on the packaging		b) By checking if the food has the lowest price				
	c) By trusting all food brands equally	d	<ul> <li>d) By selecting food items based on the product's color and texture</li> </ul>				
(xiv	Which of the following is a common adulter	rant for	und in milk?				
(xv)	a) Starch c) Argemone seeds What is the primary reason for food adulters	ď	Lead oxide Copper sulfate				
	a) To enhance food quality c) To increase profit margin		To improve food safety To meet international food standards				
	G	roup-l					
	(Short Answe	•		5=15			
	xplain how spoilage occurs in fruits and veget rganisms.	tables	and name the common spoilage	(3)			
	3. Illustrate the role of shelf life in determining food quality and safety.						
	lassify the major natural pigments found in fr gnificance in food processing.	ruits an	d vegetables and discuss their	(3)			
	iscuss the importance of fermentation in brea			(3)			
	6. Compare HACCP and FSSAI in terms of their role in food safety regulation.  OR						
A p	nalyze how HACCP principles can be applied troduction process.	to ider	tify and prevent hazards in their	(3)			
	G	iroup-					
	(Long Answe		Questions	k 6=30			
	Evaluate the role of barcodes in supply chain efficiency in food distribution.			(5)			
8.	What are the key principles of the Food Production and sale of fruit and vegetable pro	ucts O	rder (FPO) and how does it regulate the?	(5)			

Explain the compositional differences between jams, jellies, and marmalades, and how they affect texture and spreadability.
 Assess the effectiveness of fermentation as a preservation technique in extending the shelf (5) life of food.
 Explain how freezing, drying, and irradiation help in controlling food spoilage. (5)
 Examine how the use of color in food packaging influences consumer purchasing decisions (5) and product perception.
 OR

 Analyse the role of FSSAI in monitoring and controlling food adulteration and how these (5) organizations protect consumers.
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