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BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Sc.(FND)-Hons-2022
Course Name – Product Development and Sensory Evaluation
Course Code - BFNC603
(Semester VI)

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

- 1. Choose the correct alternative from the following:
- (i) Define the primary objective of sensory evaluation of food.
 - a) Determine food cost

b) Assess food quality using human senses

c) Measure food weight

- d) Identify food origin
- (ii) Recognize the type of sensory test where participants rate food samples based on intensity and preference.
 - a) Discrimination test

b) Descriptive test

c) Affective test

- d) Threshold test
- (iii) Define the sensory threshold in terms of basic tastes.
 - a) The average preference of a food
- b) The minimum concentration of a substance needed to detect a taste
- c) The point at which a food taste changes
- d) The maximum number of tasters required
- (iv) Interpret the meaning of "instrumental tests" in sensory evaluation.
 - a) Tests using only human sensory organs
- b) Tests using laboratory instruments to measure attributes like color and texture
- c) Tests to measure the time it takes to cook food
- d) Tests to measure the nutritional content of food
- (v) Demonstrate the impact of sustainability on product development.
 - a) It encourages companies to use ecofriendly materials
- b) It increases production costs only
- c) It limits product innovation
- d) It reduces consumer engagement
- (vi) Identify what happens during the concept development stage.
 - a) Final product is launched

- b) Product idea is refined and tested
- c) Financial analysis is conducted
- d) Market saturation is measured
- (vii) Demonstrate how branding affects product development success.
 - a) It builds customer trust and product recognition
- b) It slows down product launches

001	25	d) It prevents businesses from expanding	0.0	
(viii)	 c) It reduces consumer interest What is the term for a customer's regular purch 	asing habit of a particular brand?	ig 	
	a) Brand loyalty c) Market segmentation What is the primary motivation behind impulse buying?			
	a) Careful product comparison b) Emotional triggers c) Long-term need fulfillment d) Peer pressure Which factor is MOST important for consumers when choosing between similar food products?			
	a) Advertisementsc) Brand logoIf a consumer reads food labels before purchasi	b) Price and quality d) Shelf placement ng, they are engaging in:		
(xii)	a) Impulse buyingc) Informed decision-makingWhich factor is an example of external influence	b) Price-driven buying d) Habitual buying e on consumer food choices?		
(xiii)	a) Personal tastec) Food allergiesWhich processed food category is growing rapid	b) Peer influence d) Nutritional needs lly due to consumer demand?		
(xiv)	a) Frozen foodsc) Preserved meatsWhich type of membrane technology is used to ones?	b) Canned foods d) Packaged snacks separate large molecules from smaller		
(xv)	a) Reverse osmosisc) MicrofiltrationWhat type of food products commonly undergo			
	a) Dried fruits c) Soft drinks	b) Cheese and whey protein d) Baked goods		
	Grou	р-В		
	(Short Answer Ty		3 x 5=15	
3. W 4. Ho 5. W 6. As te	ustrate the stages of product development with hat is membrane technology in food processing, ow do cultural factors affect food purchasing dechat impact does product labeling have on consusesess the effectiveness of instrumental tests in maxture, and odor. Of	and why is it important? isions? mer food preferences? easuring sensory attributes like color,	(3) (3) (3) (3)	
	aluate the limitations of threshold tests for basic eferences.	tastes in determining consumer	(3)	
	Grou	p-C		
	(Long Answer Ty	pe Questions)	5 x 6=30	
f B. (Discuss the key factors considered while selecting ood industry. Compare analytical (discriminative) and affective analyze the role of cross-functional teams in ensured the control of t	(preference) sensory tests with example	(5) es. (5) v (5)	
10. C 11. C 12. E	ood products. Compare and contrast reverse osmosis and ultral Discuss the advantages and limitations of member valuate the impact of extrusion technology on tood products.	ane technology in food processing,	(5) (5) (5)	

How do emerging fo alternative protein s	OR od processing technologies contribute to the development ources?	nt of	(5)
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