



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Sc.(BT)-Hons-2023
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

- 1. Choose the correct alternative from the following:
- (i) Cite the fact that is correct with respect to the food preservation industry
 - a) Majority of high quality foods in the world are the highly perishable food items
- b) More people with more than adequate standard of living exist and hence the demand for safe preserved food is growing
- c) Food preservation market is going to boom as more people are shifting to areas where there is more industrial growth and hence they expect a better standard of living which includes safer food

All of the mentioned

- (ii) Which method of food preservation involves heating food to a high temperature and then sealing it in airtight containers?
 - a) Freeze-drying

b) Canning

c) Fermentation

- d) Dehydration
- (iii) Statement 1: Foods of plant origin can be used as additives for food preservation.

 Statement 2: Dry fruits and seeds are the most important higher plant structures used as food.
 - a) True, False

b) True, True

c) False, False

- d) False, True
- (iv) The enzyme which breaks down carbohydrate
 - a) Lipase

b) Protenase

c) Amylase

- d) None of the above
- (v) Which nutrient helps in the activation of alcohol dehydrogenase?
 - a) Zinc

b) Iron

c) Magnesium

- d) Manganese
- (vi) Which vitamin is a cofactor in oxidative decarboxylation of α -keto acids?
 - a) Biotin

b) Riboflavin

c) Niacin

d) Thymine

(vii)	Identify the disease which occur due to malnut	rition	
	a) Marasmus c) Both of the above	b) Kwashiorkord) None of the above	
(viii	Which type of amino acids cannot be synthesize from the diet?	ed by the body and must be obtained	
	a) Essential Amino Acids	b) Non essential amino acids	
	c) Conditionally Essential Amino Acids	 d) All amino acids can be synthesized b body 	y the
(ix)	Name a disease caused by deficiency of Vitamir	B1`	
	a) Pellagra	b) Beriberi	
(~)	c) Anemia	d) None of the above	
(x)	Select which vitamin acts as the most importan		
	a) Vitamin A c) Vitamin C	b) Vitamin B6	
(xi	Which Indian authority is responsible for setting products?	d) Vitamin B12 g quality standards for vegetable	
	 a) FSSAI (Food Safety and Standards Authority of India) 	b) Ministry of Agriculture and Farmers \	Welfare
(xi	c) Ministry of Commerce and Industry i) Select which of the following practices is a key p	d) Ministry of Food Processing Industrie or inciple of organic agriculture?	es
	a) Monoculture	b) Crop rotation and polyculture	
/v:	c) Excessive irrigation	d) Genetic modification	
(XII	 ii) In a bakery, which of the following methods wo shelf life of freshly baked goods 	ula you recommend for improving the	
	a) Increasing the sugar content	b) Decreasing the baking temperature	
	c) Using preservatives like calcium propionate	d) Adding more liquid to the dough	
(xi	v) If a farmer suspects an outbreak of a contagious appropriate biosecurity action?	s animal disease, what is the	
	a)	b) Quarantine the affected animals, res	
	Continue regular farming activities	movement, and report the outbreak authorities	to
(x)	c) Increase the use of antibiotics Name the key microorganism for yogurt is	d) Relocate the animals to a different fa	arm
,	a) Streptococcus thermophilus	b) Leuconostoc citrovorum	
	c) Lactobacillus acidophilus	d) Streptococcus lactis	
	Grou	-	
	(Short Answer Ty	rpe Questions)	3 x 5=15
2. E	explain the importance of hop additions during the	e brewing process.	(3)
	What are the essential and non-essential vitamins	? Give examples of three vitamins for ea	ich (3)
	ategory Vrite the function of State Food Safety Commissio	oners and Food Safety Officers (FCOs) :-	(2)
tl	he state level administrative set up	mers and rood safety Officers (FSOs) in	(3)
	ive examples of three fatty fish high in omega-3 f	atty acids.	(3)
6. S	6. Sumarize the different types of bacteriocin in food preservation		
r.	OF		(3)
50	ummarize the roles of O3 & H2O2 as food sanitise	ers	(3)
	Grou	p-C	
	(Long Answer Ty	pe Questions)	5 x 6=3

5 x 6=30

7.	Explain the State level Administrative Setup of FSSAI	
8.	Describe the accuracy Administrative Setup of FSSAI	(5)
	Fluoride, Manganese, Chromium	, (5)
10	Write a note on food preservation through use of radiation.	(5)
	various regions.	(5)
	Could you provide a detailed explanation of the process of extracting oil from sunflower seeds, including its techniques and applications?	(5)
12.	Explain the advantages and disadvantages of chemical preservation in comparison to other methods like thermal treatments and dehydration	(5)
	OR	
	Illustrate the principle behind the process of dehydration in food preservation. Provide an example of a food item commonly preserved through dehydration	(5)
