

GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS SEPTEMBER - DECEMBER 2021 SEMESTER

CERTIFICATE IN NUTRITION AND DIETETICS

COURSE CODE: CIND 031

COURSE TITLE: BASIC FOOD PRESERVATION AND PROCESSING

DATE: 17 NOVEMBER 2021 TIME: 11.30 AM - 2.30 PM

INSTRUCTIONS TO CANDIDATES

- 1. SECTION A IS COMPULSORY.
- 2. SECTION B: ANSWER ANY OTHER THREE QUESTIONS.
- 3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
- 4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A: COMPULSORY

MULTIPLE CHOICE QUESTIONS

[ONE MARK EACH]

1.	Which of the following organism does not have an economic benefit in food processing?
	A. Yeasts
	B. Bacteria
	C. Fungi
	D. Insects
2.	Identify the substance that is not a food sweetener
	A. Sorbital
	B. Saccharine.
	C. Glycerol
	D. Aspartame
3.	Which of the following is not a source of irradiation as a food processing technique?
	A. Ultraviolet rays
	B. Gamma rays
	C. X rays
	D. Electron beams
4.	Which of the following is not processed through fermentation?
	A. Butter
	B. Bread
	C. Peanut butter
	D. Cheese
5.	Which of the following foods is not suitable for blanching?
	A. Carrots
	B. Peas
	C. Spinach
	D. Eggs

SHORT ANSWER QUESTIONS: ANSWER ALL QUESTIONS IN THIS SECTION

1. List four methods of control of contaminants in the food industry [4 Marks]

2. Highlight factors that could determine the quality of finished products. [5 Marks]

3.	State five uses of ionizing radiations in the food industry	[5 Marks]
4.	Highlight five roles of food preservation	[5 Marks]
5.	List six modern methods of food preservation	[6 Marks]
6.	List four requirements of a packaging material	[4 Marks]
7.	List 3 packaging materials and the food products they are best suited for	[6 Marks]
	SECTION B: CHOOSE ANY THREE QUESTIONS]	
	QUESTION ONE	
a)	Discuss five factors causing deterioration in foods	[10 Marks]
b)	Discuss any five characteristics of enzymes	[10 Marks]
D)	Discuss any five characteristics of enzymes	[10 Marks]
	QUESTION TWO	
a)	State and discuss five types of food additives	[10 Marks]
b)	Describe advantages and disadvantages of using food additives	[10 Marks]
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	QUESTION THREE	
a)	Distinguish between a toxin and an anti-nutrient	[2 Marks]
b)	Describe four effects of consuming toxic constituents	[8 Marks]
c)	Explain five types of anti-nutrients	[10 Marks]
	QUESTION FOUR	
a)	Define packaging	[2 Marks]
b)	Elaborate four types of packaging based on mode or style of packaging	[8 Marks]
c)	Discuss the merits and demerits of using paper as a packaging material in the foo	d industry
		[10 Marks]
	QUESTION FIVE	
	Discuss four food preservation techniques that primarily use high temperature.	[20 Marks]
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