7. 2



(University of Choice)

### MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

**MAIN CAMPUS** 

## UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

# FIRST YEAR, FIRST SEMESTER MAIN EXAMINATION FOR THE DIPLOMA

IN

HOSPITALITY AND INSTITUTIONAL MANAGEMENT

COURSE CODE: DHIM 005

COURSE TITLE: FOOD SCIENCE

DATE: 13/12/2023 TIME: 2-4 PM

INSTRUCTIONS TO CANDIDATES
Answer ALL questions in SECTION A and B
Answer TWO questions from section C.

TIME: 2Hours

MMUST observes ZERO tolerance to examination Cheating This paper consists three printed Pages. Please Turn Over

## **SECTION A: ANSWER ALL QUESTIONS (10 MARKS)**

1. Coo	cci, Bacilli, Spirilla are all examples of?
	Yeast.
B.	Bacteria.
C.	Moulds.
D.	Lactose.
	chemical properties of food includes macronutrients such aswhile the
Phy	ysical properties includes aspects of .
	calcium, iron
	size, iron
	size, color
	fats, size
	ich one is a false statement about food science?
	Food science is the mass production of food products from raw materials utilizing the
	principles of engineering.
B.	Food science is concerned with aspects of food processing, food preservation.
C.	Food science involves the study of quality aspects of foods prior to consumption.
D.	Food science is a discipline based upon biological physical and chemical of food.
4 Disi	persed phase and dispersing medium of smoke are
A A	solid in liquid
	liquid in solid
	solid in gas
	gas in solid
contain	pe of food preservation technique that involves sealing food in sterilized airtight ner is called?
	Canning.
	Irradiating.
	Freezing.
	Drying.
	following are factors that are responsible for the denaturation of proteins. Which one
is NO	$\Gamma$ ?
A.	Heat.
В.	Charge.
	PH change.
	Organic solvents.
	ingus that causes fermentation is called?
	Enzymes.
	Yeast.
C.	Mold.
	Bacteria.
	reins are
	made up of amino acids.
	essential for the development of skin, teeth and bones.
	is the only nutrient that can build, repair and maintain body tissues.
	all the above.

- 9. One of the following substance belongs to a colloid system. Which one:
  - A. Milk.
  - B. Accu water.
  - C. Vinegar.
  - D. Blood.
- 10. Hydrogenation is the conversion of unsaturated acid groups into the saturated one by a Catalyst known as
  - A. Ti.
  - B. Pb.
  - C. Ni.
  - D. Sn.

#### **SECTION B: ANSWER ALL QUESTIONS (30 MARKS)**

- 11. Highlight SIX importance of food additives in the hospitality industry. (6mks)
- 12. List SIX causes of food poisoning in hotels. (6mks)
- 13. State FOUR principles applied in preservation of food in the hospitality industry. (6mks)
- 14. Outline SIX changes that takes place during cooking. (6mks)
- 15. Bacteria brings about some beneficial effects in the food industry. Highlight **SIX** of these benefits. (6mks)

#### SECTION C: ANSWER ONLY TWO QUESTIONS (30MARKS)

- 16. a) As a hospitality and institutional management student, discuss five methods you would Use to preserve food. (10mks)
- b) State FIVE benefits of preserving food. (5mks)
- 17. a) Fats can be used in various ways in the hospitality industry. Explain. (10Mks)
- b) Highlight FIVE methods of preventing browning of food. (5mks)
- 18. Food science plays an important role in food handling, preparation and service. Explain. (15mks)