

B. Sc. Culinary Arts

Type: Semester End Assessm	nent (SEA)	Date: 20/11/2024		
Batch and Semester: 2023-2	026 & III Total Ma	rks: 25 Time Duration: 2 Hours		
Course Name: Introductory Course in Food Microbiology Course Code: CAO00				
Instructor: Ms. Alyce C. Rodr	igues			
This paper contains 02 pages in addition to the cover page.				
Full Name of the Student:				
Marks Obtained:	Faculty Signature:	Invigilator Signature:		
Main Answer sheet	Number of Suppleme	nts Total number of Answer sheets		
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- Carefully read each question at the outset of the paper. All queries must be addressed to the faculty within the first 10 minutes of the examination.
- Students are expected to maintain complete silence in the examination hall and should not interact or communicate with their peers.
- Students will carry only their essential stationery like pens, pencils, ruler and simple calculators into the examination hall.
- Bags, eatables, drinks, etc. will not be allowed inside the hall with the exception of a bottle of water.
- Cell phones, electronic data banks, scientific calculators and smart/beeping watches are prohibited in the examination hall.
- Students will answer the examination with only blue/ black ball point pens unless informed differently by faculty. Avoid usage of green or red ink pens on the answer sheet.
- Dictionaries will not be allowed into examination hall unless informed differently by faculty.



Q.1. Fill in the blanks with the most appropriate answer:

Introductory Course in Food Microbiology

		(0.5 marks each = 2 Marks)
1.	Cholera is caused by	
((Escherichia coli, Vibrio cholerae, Salmonella enteritidis)	
	Brown rot on apples is caused by (Mold Penicillium, Aspergillus niger, Mold Monilia)	
((Wold Femelinan), Asperginas niger, Wold Wollina)	
3.	is a heat treatment at 135°C for 2 seconds that kills pathogorsome spoilage organisms.	enic microorganisms and
((High-temperature short time, Low-temperature holding, Ultra high-temper	ature sterilization)
4.	is a method of exposing food to ionizing radiation to exter	nd its shelf life.
((Blanching, Cold sterilization, Pasteurization, Chilling)	
	Answers <u>ANY 2</u> of the following questions.	(2 marks each = 4 Marks)
1.	Discuss class 1 preservative, and give 1 example.	
2.	Differentiate between food infection and food poisoning (2 points)	
3.	Write a short note on modified atmospheric packaging	
Q.3 <i>.</i>	Answer ANY 1 of the following questions.	(3 Marks)
		(3 Ividiks)
1.	Probiotics and prebiotics play an important role in supporting digestive he	
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Page 2 of 3



Q. 4. Answer ANY 2 of the following questions

(6 marks each = 12 Marks)

- Contamination in food processing is a critical concern as it can occur at various stages, impacting
 food safety and quality. Describe any three sources of contamination, such as raw materials
 (plants or animals), air, water, or soil.
- 2. Microbial growth in food is influenced by several internal factors, which can impact food quality, shelf life, and safety. Discuss three intrinsic factors that affect microbial growth in food, explaining how each factor plays a role in either promoting or inhibiting microbial development.
- 3. Food preservation is essential for extending shelf life, maintaining quality, and ensuring safety.

 Describe in detail any two methods of food preservation (freeze drying/ pasteurization/ canning, irradiation/ freezing).

Q.5 With a help of a diagram explain ANY 1 of the following.

(4 Marks)

- 1. Morphology of fungal mold.
- 2. Different phases in the microbial growth curve.