

B.Sc. International Hospitality Management

7	Type: Semester End Assess	ment (SEA)		Date: 05/10/2023					
E	Batch and Term: 2023-26 a	nd Term I	Total Marks: 25	Time Duration: 02 Hours					
C	Course Name: Introductory Course in Food Microbiology Course Code: IHCH124								
I	Instructor: Ms. Alyce C. Rodrigues								
7	This paper contains 03 pages in addition to the cover page.								
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Full Name of the Student:									
Permanent Registration Number:Class:									
<u> </u>	Лarks Obtained:	_Faculty Sign		Invigilator Signature:					
	Main Answer sheet	Number o	f Supplements	Total number of Answer sheets					
	01								

- 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	L. Fill in the blanks with the most appropriate answer.	(0.5 marks each = 5 Marks)
1.	is a method of exposing food to ionizing radiation	to extend its shelf life.
	(Blanching, Cold sterilization, Pasteurization, Chilling)	
2.	is an extrinsic factor in determining food spoilage.	
; ;	(pH, Temperature, Nutrient content, Moisture content)	
3.	causes stormy Fermentation spoilage of n	nilk.
	(Clostridium perfringens, Clostridium thermosaccharolyticum, Es	cherichia coli, Micrococcus roseus
4.	is the antimicrobial constituent in fresh milk.	
	(Benzoic acid, Allicin, Lysozyme, Anti-coliform factor)	
5.	is an example of a facultative anaerobe.	
	(Clostridium thermosaccharolyticum, Salmonella enteritidis , Esc	cherichia coli; Proteus vulgaris)
6.	causes surface taint in butter.	
	(Pseudomonas putrefaciens, Botrytis cinerea, Aspergillus oryzae,	, Rhizopus sonti)
7.	Botulism is associated with	
	(canned food products, meat, poultry, shellfish)	
8.	Salmonellosis is caused by	
	(Clostridium thermosaccharolyticum, Salmonella enteritidis , Esc	cherichia coli; Proteus vulgaris)
9.	is a long rod twisted into spirals shaped bacteria.	
	(bacillus, cocci, vibrio, spirilla)	
10.	is a technique in which Foods are immersed in hot be	oiling water for a few minutes prior
	to processing.	
	(Blanching, Irradiation, Pasteurization, Chilling)	
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Q.2. Match the following:

(0.5 mark each = 02 Marks)

Column A	Column B		
1. Rum	i.	Molasses	
2. Black masses of spore on onions.	ii.	Mold Penicillium	
3. Brown rot on apples	iii.	Aspergillus niger	
4. Whiskey	iv.	Corn or rye	
	v.	Juices or mashes of fruits	
	vi.	Mold Monilia	

Q.3. Answer any 10 of the following questions:

(01 Mark each =10 Marks)

- 1) Define Food fermentation.
- 2) List 2 characteristics of starter culture.
- 3) Describe animals/animal based product as sources of contamination.
- 4) What are prebiotics? Cite 1 examples.
- 5) Bacterial cells are greatly affected by the concentration of solute in the medium, justify.
- 6) Give 1 point of difference between class 1 and class 2 preservatives and cite one example of each.
- 7) List out 2 Objectives of food processing.
- aic 8) Explain Freeze drying.
 - 9) List the types of Pasteurization methods.
 - 10) Discuss Staphylococcus Food Intoxication.
 - 11) List the foods associated with causing traveller diarrhoea.

Q. 4. Answer any 1 of the following questions:

(02 Marks

- 1. Describe the kinds of the microbe in **AIR**, factors affecting the number of microbes and how to avoid or control the such contamination.
- 2. Describe the kinds of the microbe in **SOIL**, list out 2 microbes commonly present in soil and how to avoid or control such contamination



Q.5. Answer any 2 of the following questions.

(06 Marks)

- 1. Diagrammatically explain the microbial growth curve.
- 2. Discuss the various methods of preservation. (using a graphic organizer).
- 3. Give 3 points of difference between food infection and food poisoning.