BOWEN UNIVERSITY IWO COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE MICROBIOLOGY PROGRAMME 2022/2023 FIRST SEMESTER EXAMINATIONS <u>MCB 409: FOOD AND DAIRY MICROBIOLOGY</u>

Instruction: Answer THREE questions

Time: 2hr 15min

1	a.	Discuss the characteristics of five (5) food borne-infections in terms of the		
	incubation period, symptoms, mode of transmission, and disease caused.		(20 marks)	
	b.	How does a food-borne intoxication differ from a food-borne infection? (3 marks) List two (2) bacterial genera involved in food-borne intoxications. (2 marks)		
	c.			
2	(a).	Describe a typical HACCP chart for milk production	(10 marks)	
	(b). Enumerate two (2) Good Manufacturing Practices (GMP) in		a food industry	
			(2 marks)	
	(c)	Describe in detail, two (2) methods of food preservation	(13marks)	
3.	(a)	Discuss five (5) benefits of food fermentations	(7½ marks)	
	(b)	(b) write on the production process and microorganisms involved in a named root-tuber-		
	based fermented food.		(17½ marks)	
4.	(a)	Write on two (2) sources of food microorganisms	(10 marks)	
	(b)	Discuss five (5) factors in food that may encourage microbial growth	(15 marks)	
5.	(a)	List 5 (five) factors which cause changes in food as a result of food spoilage		
			(5 marks)	
	(b)	Describe extensively the groups of spoilage organisms		
	(-)	and Broups of sponage organisms	(20marks)	