

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

FOURTH YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE FOOD SECURITY

2019/2020 ACADEMIC YEAR

SPECIAL EXAMS/RESIT

COURSE CODE: AFB 3422

COURSE TITLE: Food Quality Assurance and Control

EXAM VENUE: STREAM: BSc. Food Security

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL the questions in section A and any TWO in section B.
- 2. Candidates are advised not to write on question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1.	1. Explain the meaning of the following terminologies as used in food quality assurance a	
	a. Food safety	(2 marks)
	b. Food hazard	(2 marks)
	c. Food quality audit	(2 marks)
2. a.	Explain three important components of food quality	(6marks)
b. Using any two sensory parameters, explain how you will evaluate dairy milk to ascertain whether it is safe or unsafe for human consumption (4 marks)		
c. Briefly explain any three Good Agricultural Practices that should be practiced by tomato		
1	farmers during harvesting to maintain quality of tomato fruits	(6 marks)
3	a. What is ISO 2200 as used in food quality assurance and how is it bene	eficial to
	consumers	(3 marks)
1	b. Explain the difference between is ISO 22000 and HACCP	(2 marks)
	c. How does KEBS protect consumers from unsafe food products	(3 marks)

SECTION B [40 MARKS]

Answer any TWO QUESTIONS from this Section.

4. Quality improvement is still not a success story in the Kenyan food industry. Discuss possible challenges to food quality improvement in Kenya.

(20 marks)

- Discuss the five major factors affecting/limiting shelf- life and sensory properties of food, highlighting the cause/type of reaction involved and the undesirable effects resulting from the reactions (20 marks)
- 6. Dairy industry is an important agricultural sub-sector in Kenya's economy. However, lack of knowledge on best practices and constraints to improvement among smallholder farmers continue to hamper milk quality. You have been hired as a food quality expert to train small-holder dairy farmers in Nyandarua County on the best quality assurance and control practices in the dairy value-chain that will improve milk quality. Clearly explain the practices you will focus on , from milk production to consumption (20 marks)