

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION  
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS  
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE**

**BOTA 330: FOOD MICROBIOLOGY**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 01/11/2021**

**8.30 A.M - 10.30 A.M.**

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**INSTRUCTIONS:**

- Answer all questions in section A and any two in section B
- Do not write anything on the question paper
- Use illustrations where appropriate to enhance your answer.

**SECTION A (30 MARKS)**

1. Define the following terms. [3 marks]
  - a. Probiotics
  - b. Food poisoning
  - c. Algal bloom
2. Discuss the benefits of proper food safety and hygiene. [4 marks]
3. Explain the importance of genetic engineering in food microbiology. [4 marks]
4. Describe indicators used in identifying spoilt food. [4 marks]
5. Discuss the factors affecting food spoilage. [4 marks]
6. Discuss the importance of microorganisms in food. [4 marks]
7. List six symptoms associated with food poisoning. [3 marks]
8. Account for pigmentation in algae and cyanobacteria. [4 marks]

**Section B (40 Marks)**

9. Discuss food preservation methods. [20 marks]

10. Discuss factors that affect microbial growth in food. [20 marks]

11. Describe different types of fermentation processes in food industry. [20 marks]

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