



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(ENVIRONMENTAL HEALTH)**

HEH 109: FOOD SAFETY AND SANITATION

DATE: Thursday 23rd November, 2017

TIME: 11.00 a.m. - 1.00 p.m.

SECTION A: Answer ALL questions (20 marks)

1. Citing examples, define the following terms:
 - (a) Cross-contamination (2 marks)
 - (b) Adulteration (2 marks)
2. Explain high heat/temperature methods that can be used in food preservation (4 marks)
3. Describe four (4) factors underlying food spoilage (4 marks)
4. Outline four (4) major principles of a food control system (4 marks)
5. Describe the importance of product labelling with regards to food safety (4 marks)

SECTION B: Answer questions 6 and any other TWO questions

6. Using a diagram, discuss the various routes within which microbial contamination of food occurs (20 marks)
7. Discuss the procedures you would use in the investigation of a food borne disease outbreak (15 marks)
8. Contemplate on factors underlying the occurrence of food borne diseases and outline ways in which they can be controlled (15 marks)
9. Discuss the general steps involved in HACCP program and outline challenges that hinder effective implementation of this system in Kenya (15 marks)