

TECHNICAL UNIVERSITY OF MOMBASA

(MAIN PAPER)

DEPARTMENT OF ENVIROMENT AND HEALTH SCIENCES

THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH

BSCH 14J

APH 4405: FOOD SAFETY AND SECURITY

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATE

ATTEMPT QUESTION ONE(COMPULSAR) AND ANY OTHER TWO QUESTION

1 a, Define the following terms:

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| i , Food security | 2 marks |
| ii , Time temperature abuse | 2 marks |
| iii , Allergen | 2 marks |
| iv, Casinogens | 2 marks |

b ,Differentiate

- | | |
|--|---------|
| i , Chronic food insecurity from transitory food insecurity. | 4marks |
| ii , Food access and food utilization | 4 marks |
| c ,Describe five coping strategies to food insecurity. | 5 marks |
| d, State three types outbreaks as applied in food safety. | 3 marks |
| e, Describe five factors that are needed for growth of bacteria. | 5 marks |
| f, Outline two sources of food for the community. | 1 marks |

2, Food security has been a challenge in Kenya for many years and appropriate policy measures to remedy the problem need to be enforced.

Describe the policy measures that need to be put in place to enhance food security in our communities.
20 marks

3, Describe food intoxication by *Clostridium botulinum* under the following:

i, Causative agent,

ii, foods involved

iii, signs and symptoms

iv, preventive measures 20 marks

4, Discuss the five key components National food control system 20 marks

5, The communities of eastern province have experienced Mycotoxin poisoning for many years. Kambu had his three children dead and only him and wife survived.

a, Explain the occurrence of Mycotoxin and outline the general characteristics. 10 marks

b, Discuss Aflatoxin food intoxication and its remedies. 10 marks