



MERU UNIVERSITY OF SCIENCE & TECHNOLOGY

Foundation of innovations

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University Examination 2016/2017

**THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN AGRICULTURE AND FOOD SCIENCE MANAGEMENT**

AFM 3350: FOOD SECURITY AND TRADE

DATE: JUNE 2017

TIME: 2 HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions.

QUESTION ONE (30 MARKS)

- a) Define food security and highlight four elements of food security. (5 Marks)
- b) Explain the difference between chronic and transitory food insecurity. (5 Marks)
- c) Explain the meaning of sustainable agriculture and outline its relationship with food security. (5 Marks)
- d) Discuss some of the coping strategies employed at the household levels to mitigate food insecurity. (5 Marks)
- e) Explain the meaning of resilience as used in food security studies and state at least three factors that determine household food security resilience in Kenya. (5 Marks)
- f) Discuss global population trends and future food needs. (5 Marks)

QUESTION TWO (20 MARKS)

- a) Discuss trade as an opportunity and as a threat to food security. (15 Marks)
- b) Explain the concept of agribusiness value chain. (5 Marks)

QUESTION THREE (20 MARKS)

- a) Critically examine different ways of improving global food security. (16 Marks)

- b) Explain the relationship between environment and food security. (4 Marks)

QUESTION FOUR (20 MARKS)

- a) Explain the major causes of food insecurity in Kenya. (12 Marks)
- b) Argue a case for adoption of GMO's as a solution to global food insecurity. (8 Marks)