



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF AGRICULTURE & FOOD SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
AGRICULTURAL EXTENSION & EDUCATION**

**FOURTH YEAR FIRST SEMESTER 2017/2018 ACADEMIC YEAR**

**MAIN CAMPUS**

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**COURSE CODE: AAE 3416**

**COURSE TITLE: COMMUNITY HEALTH & FOOD SECURITY**

**EXAM VENUE: LAB 16**

**STREAM: AGED**

**DATE: 20/12/17**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2.00 HOURS**

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**Instructions:**

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

## **SECTION A (30 MARKS)**

1. Briefly explain any THREE eating disorders (6 marks)
2. Illustrate, using an appropriate diagram, the epidemiologic triad, indicating clearly the various components (5 marks)
3. Define the following terms
  - (a) Health (1 mark)
  - (b) Community (1 mark)
  - (c) Community health (1 mark)
  - (d) Food security (1 mark)
  - (e) Population health (1 mark)
4. Briefly describe the various factors that affect the health of a community, giving examples where necessary (8 marks)
5. Identify and briefly explain any SIX student's role in the problem-based learning (6 marks)

## **SECTION B (40 MARKS)**

6. Discuss in details the epidemiologic study designs (20 marks)
7. (a) Discuss the Quetelet's Index classification of obesity, indicating clearly the risk of co-morbidity (10 marks)  
(b) Nancy, a female student, weighs 65.3 Kg and is 158cm tall. Considering that she consumes 2330 Kcal energy per day and that she has a light activity lifestyle. Compute her energy expenditure for the day. Comment on this computation. (10 marks)
8. Discuss the historical developments that led to community food security as a public health issue (20 marks)
9. Discuss the current circumstances that provoke new thinking about public health strategies for community food security (20 marks)