



BONDO UNIVERSITY COLLEGE
UNIVERSITY EXAMINATIONS 2012/2013
FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR
DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT

BUC(WEEKEND CLASS)

COURSE CODE: AFB 2111

TITLE: INTRODUCTION TO FOOD SECURITY

DATE: 12/12/2012

TIME: 12.00-14.00PM

DURATION: 1.5 HOURS

INSTRUCTIONS

- 1. This paper contains TWO sections**
- 2. Answer ALL questions in section A (Compulsory) and ANY other Two questions form section B**
- 3. Write all answers in the booklet provided**

SECTION A (30 marks)

- a) Define the following terms in relation to food security:
- i) Availability
 - ii) Accessibility
 - iii) Utilization (3 marks)
- b) Explain the difference between chronic and temporal food insecurity (3 marks)
- c) List three agricultural programmes the government of Kenya has in place to combat food insecurity (3 marks)
- d) Contrast the nutritional benefits of the following - with examples of foods rich in these nutrients:
- i) Proteins vs Carbohydrates (3 marks)
 - ii) Fats vs Carbohydrates (3 marks)
 - iii) Vitamins vs minerals (3 marks)
- e) Discuss any three safe steps in handling food (3 marks)
- f) State three ways of assessment of nutritional status of a child (3 marks)
- g) Briefly discuss the influence of culture on food habits (3 marks)
- i) Discuss the role of FAO in food security (3 marks)

SECTION B (30 marks)

- j) Discuss climate smart agriculture in relation to climate change and food security (15 marks)
- k) Describe the following food preservation methods:
- i) High temperature
 - ii) Chemical and
 - iii) Irradiation and vacuum packing (15 marks)
- l) Explain the information gathered from the following indicators during a nutritional status assessment survey:
- i) Low weight-for-height
 - ii) Low height-for-age
 - iii) Mid-Upper Arm Circumference (MUAC)
 - iv) Low Body Mass Index and
 - v) Biochemical testing (15 marks)
- m) Discuss the advantages and disadvantages of civilization on food consumption habits in Africa. (15 marks)