



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**FOURTH YEAR SECOND SEMESTER UNIVERSITY EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY**

2016/2017 ACADEMIC YEAR

REGULAR

COURSE CODE: AFB 3424

COURSE TITLE: FOOD PACKAGING, STORAGE AND DISTRIBUTION

EXAM VENUE:

STREAM: DIP. (Food Security)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

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

SECTION A: 30 MARKS

Answer all questions in this section

1. a) Highlight the constraints that producers face while distributing food in rural Kenya (10 marks)
- b) Explain the five market place concepts highlighting the need to understand customer needs and wants and the markets within which they operate. (10 marks)
- c) Explain the hygienic guidelines that should be used while handling food items (10 marks)

SECTION B: 40 MARKS

Answer only TWO questions in this section

2. a) What roles do the members of the marketing channel perform (10 marks)
- b) Explain the laws related to food packaging (10 marks)
3. a) What conditions are necessary for hygienic storage of food (10 marks)
- b) Food contamination refers to the presence in food of harmful chemicals and microorganisms which can cause consumer illness. Explain the sources of food contamination (10 marks)
4. a) Explain the functions of food packaging (10 marks)
- b) Explain five factors that food producers would consider when selecting a means of transport. (10 marks)
5. Explain the various types of food packaging materials highlighting their environmental considerations (20 marks)