



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE

FOOD SECURITY.

4TH YEAR 2ND SEMESTER 2020/2021 ACADEMIC YEAR

SIAYA REGULAR

COURSE CODE: AFB 3424

COURSE TITLE: FOOD PACKAGING, STORAGE AND DISTRIBUTION

EXAM VENUE:

STREAM: BSc. (Food Security)

DATE:

EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer question 1 (Compulsory) 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

Answer all questions in this section

QUESTION ONE (COMPULSORY) 30 MARKS

- a) Define the following concepts
- i) Food packaging (2 marks)
 - ii) Agglomeration (2 marks)
 - iii) Food contamination (2 marks)
 - iv) Source reduction (2 marks)
 - v) Food safety (2 marks)
- b) Explain five fundamental rules that guides and regulates the packaging of food materials.(10marks)
- c) Highlight the constraints that producers face while distributing raw food materials in rural Kenya (10 marks)

SECTION B

Answer only two questions in this section

QUESTION TWO 20 MARKS

- a) Explain the objectives of food packaging and package labelling (10 marks)
- b) Food contamination refers to the presence of harmful chemicals and microorganisms which can cause illness. Explain the guidelines for prevention of food contamination (10 marks)

QUESTION THREE 20 MARKS

- a) Explain five emerging trends in the food packaging industry. (10 marks)
- b) Explain the regulations guiding food distribution in various countries. (10 marks)

QUESTION FOUR 20 MARKS

- a) Describe five factors that should be considered for effective storage of food items. (10 marks)
- b) Explain the approaches for effective management of food contamination (10 marks)

QUESTION FIVE 20 MARKS.

Explain the various forms of food packaging materials highlighting their characteristics, applications and effectiveness. (20 marks)