



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
AGRICULTURAL EXTENSION EDUCATION, BACHELOR OF SCIENCE ANIMAL
SCIENCE, BACHELOR OF SCIENCE HORTICULTURE AND BACHELOR OF
SCIENCE FOOD SECURITY**

THIRD YEAR SECOND SEMESTER 2019/2020 ACADEMIC YEAR

REGULAR

COURSE CODE: AEE 3321

COURSE TITLE: AGRICULTURAL EXTENSION AND TECHNOLOGY TRANSFER

**EXAM VENUE: STREAM: BSC. Agricultural Extension
Education, Food Security, Hort., Animal Science**

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer Question ONE and any other THREE**
- 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.**

Question 1

- a) Define the following terms: (6marks)
 - (i) Agricultural Education
 - (ii) “Extension Education
 - (iii) Agricultural Extension
- b) Briefly outline the origin of Agricultural Extension (14marks)
- c) Explain FIVE roles of agricultural extension service in Kenya (5marks)
- d) Explain five factors affecting effective performance of extension services in developing countries such as Kenya. (5marks)

Question 2

- a) Communication is an integral component of extension service in relation to agricultural development. Discuss the directional considerations associated with communication process. (10 marks)
- b) Outline **FIVE** barriers to effective communication of agricultural technologies (10marks)

Question 3

- a) With the aid of a diagram, explain ‘*The innovation decision process theory*’ (10 marks)
- b) Discuss **FOUR** possible causes of differential adoption of agricultural innovations (10 marks)

Question 4

Method demonstration is a way of imparting knowledge to farmers. What are the advantages and disadvantages of method demonstration (20 marks)

Question 5

- a) Farm and home visits are essential elements of extension education. What useful purposes do Farm and home visits serve? (10marks)
- b) With examples, explain the role of electronic media in transfer of farm technology (10 marks)

Question 6

- a) What is cyber extension in the applied context of Agriculture? (4 marks)
- b) Describe **EIGHT** merits of cyber extension to agricultural development in Kenya (16 marks).
