



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
ACADEMIC YEAR: 2021/2022**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE
OF BSC. AGRICULTURE AND BIO-TECHNOLOGY
(MAIN EXAMINATION)**

COURSE CODE: AEX 302

COURSE TITLE: AGRICULTURE EXTENSION

DATE: 26/04/2022

TIME: 3-5 PM

**INSTRUCTION TO CANDIDATES: Question ONE (1) is compulsory.
Answer THREE (3) questions**

TIME: 2 hours

MMUST observes ZERO tolerance to examination cheating

This paper consists of 3 printed pages. Please Turn Over

SECTION A (30 MKS) COMPULSORY

Question One

- a).Outline ANY FIVE characteristics of Extension Education (05 MARKS)
- b) Briefly discuss the FOUR tasks of agriculture extension (08 MARKS)
- c) List FIVE main duties of an Extension Agent (5 MARKS)
- d). Describe the FOUR elements of innovation (12 MARKS)

SECTION B (40MARKS) ANSWER ANY TWO QUESTIONS FROM THIS SECTION

Question Two

- a) State and explain 10 principles of extension (10mks)
- b) State advantages of the following extension teaching methods
 - i) Individuals methods of extension (4mks)
 - ii) Group methods of extension (4mks)
 - iii) Mass method of extension (2 MARKS)

Question Three

- a) Describe the stages involved in the identification and implementation of extension programs (10 MARKS)
- b) Describe the FIVE characteristics of innovation. (10 MARKS)

Question Four

- a). Discuss ANY FIVE problems limiting Extension Programs in identifying and implementing the possible solutions to problems in the development of agriculture. (10mks)
- b) Explain five roles that women play in agricultural extension and development in Kenya (5mks)
- c) State five ways through which the Kenyan government can strengthen research extension linkage to enhance agricultural productivity (5mks)