



(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

(8 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)