



# MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AE 332: PRINCIPLES OF AGRICULTURAL EXTENSION

DATE: 23/7/2019

TIME: 8.30-10.30 AM

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## INSTRUCTIONS:

Answer *ALL* questions from Section A and any other *TWO* from Section B:

### SECTION A: COMPULSORY: (30 MARKS)

#### QUESTION ONE (30 MARKS)

- a) Write short notes on at least two extension teaching methods in each category
- i. Individual methods (6 marks)
    - Face to face meetings
    - Telephone calls
    - Emails
    - Farm visits (Any three well explained each 2 marks)
  - ii. Group methods (6 marks)
    - Group discussions
    - Field visits
    - Demonstration
    - Meetings
    - Lectures (Any three well explained each 2 marks)
  - iii. Mass methods (6 marks)
    - Television show

Radio presentation

Print media

(Any three well explained each 2 marks)

- b) Elaborate the following extension approaches
- i. Participatory learning approach, (4 marks)
  - ii. Rapid rural appraisal approach, (4 marks)
  - iii. Training and visit approach. (4 marks)

**SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)**

**QUESTION TWO (20 MARKS)**

- a) Assuming you are mandated to recruit an extension officer in the ministry of Agriculture. Discuss at least five roles you expect an extension officer to perform after posting. (10 marks)
- b) World food programme is performing various functions to ensure food security in Kenya. Using relevant examples discuss five key services they offer in agriculture sector. (10 marks)

**QUESTION THREE (20 MARKS)**

World vision Kenya has contacted you as an extension officer working in Kilifi County under Kulana Gulalu irrigation scheme to carry out need assessment on the project. Using Participatory Rural Appraisal discuss the steps you will follow to come up with community action plan as the final document of implementation. (20 marks)

**QUESTION FOUR (20 MARKS)**

- a) Extension officer may opt to use individual methods to introduce a new innovation. Elaborate three basic phases which he/she will follow to reach his/her clients. (10 marks)
- b) Agriculture in Kenya contributes 70% of the GDP. Discuss five main factors that have promoted agricultural development. (10 marks)

**QUESTION FIVE (20 MARKS)**

An extension officer working in Meru County would like to introduce a news water saving technology. Briefly discuss the process he/she will follow to implement the technology.