



# MACHAKOS UNIVERSITY

University Examinations for 2017/2018 Academic Year

SCHOOL OF AGRICULTURAL SCIENCE

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE

IN AGRICULTURAL EDUCATION AND EXTENSION

AEE 211: AGRICULTURAL COMMUNICATION AND TECHNOLOGY

DATE: 19/12/2017

TIME: 8.30-10.30 AM

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**Instructions:**

Answer question ONE and any other TWO questions

**QUESTION ONE (30 MARKS)**

- a) Differentiate between a model and a diorama as used in teaching agriculture( 2 marks)
- b) The effectiveness of any graphic material is largely dependent on its production quality. Describe FOUR guidelines that should be considered in producing agricultural graphics under each the following subheadings:
  - i. Composition/Layout (2 marks)
  - ii. Lettering (2 marks)
  - iii. Illustrations (2 marks)
- c) Explain FIVE factors affecting the use and learning of visual literacy (5 marks)
- d) Discuss the procedure used to preserve the following agricultural teaching/learning resources
  - i. Crop specimen (3 marks)
  - ii. Pests insects (3 marks)
  - iii. Seeds (2 marks)
  - iv. Feeds (3 marks)

- v. Soil samples (2 marks)
- e) Describe FOUR elements considered when designing a teaching documentary script in agriculture (4 marks)

### QUESTION TWO (20 MARKS)

Communication does not occur in a vacuum context or a situation and each situation comes with its unique barriers which affect the quality of communication in agriculture

- a) Giving relevant examples explain the THREE main barriers to effective communication (3 marks)
- b) Discuss four types of teachers reinforcements that can affect communication in the classroom (8 marks)
- c) Describe SIX advantages/qualities of radio programmes (3 marks)
- d) Draw a sketch of a rabbit and use the graph/ graphic method to enlarge the diagram (scale of 1:2) (6 marks)

### QUESTION THREE (20 MARKS)

- a) Differentiate between print and non print media (4 marks)
- b) Compare and contrast the use of power point presentation and use of chalkboard (4 marks)
- c) Explain the ASSURE model as used in planning of instructional media (12 marks)

### QUESTION FOUR (20 MARKS)

- a) i. Define the term Learning resource centre (2mk)
- ii. Analyse the reasons why agriculture teachers in Kenya fail to use resources while teaching (8 marks)
- b) Discuss Edgar Dale's cone of experience and relate it to teaching of agriculture in secondary schools (10 marks)

### QUESTION FIVE (20 MARKS)

Choose a topic of your choice in agriculture and prepare a teaching documentary video script that can be used to capture/shoot a video to be watched in 40 minutes (20 marks)