



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FIRST SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

ECT 300: EDUCATION COMMUNICATION AND TECHNOLOGY IN AGRICULTURAL EDUCATION AND EXTENSION

Date:

Time: 2hrs

INSTRUCTIONS:

Answer ALL questions in section A and ANY TWO questions in section B

SECTION A: (COMPULSORY) 30 MARKS

QUESTION ONE

1.
 - a) Explain SIX advantages of using real objects in teaching agriculture. (3 marks)
 - b) Explain FOUR ways an agriculture teacher can section the school farm for effective management in learning. (2 marks)
 - c) Explain the procedures for preserving each of the following specimens for teaching in an agriculture lesson
 - i) Crop specimens e.g. weeds (4 marks)
 - ii) Insects (3 marks)
 - iii) Seeds (3 marks)
 - iv) Fertilizers (3 marks)

- d) Explain the term communication as used in Agricultural Education and Extension. (2 marks)
- e) Explain SIX reasons for effective communication to rural farmers. (3 marks)
- f) Giving relevant examples explain the seven Cs of communication important to any agriculture teacher. (3 marks)
- g)
 - i) Differentiate between) Chronemics and kinesics. (2 marks)
 - ii) Haptic and oculesics. (2 marks)

SECTION B: ANSWER ANY OTHER TWO QUESTIONS 40 MARKS

QUESTION TWO

- a) Explain **five** basic principles of learning in relation to Audio Visual materials. (10 marks)
- b) Giving relevant examples, explain **Edgar Dales cone of experience** as used in education technology. (10 marks)

QUESTION THREE

- a) Explain ten ways of organizing an effective demonstration in teaching Agriculture (10 marks)
- b) Explain the factors to consider when planning exhibits in agriculture. (10 marks)

QUESTION FOUR

- a) Explain FIVE factors affecting the use and learning of visual literacy in agriculture (10 marks)
- b) Describe the advantages of using audio-visual materials in teaching agriculture. (10 marks)

QUESTION FIVE

Design a teaching video documentary script in an agriculture topic of your choice that you can use in a 40min lesson (20 marks)