



MACHAKOS UNIVERSITY

University Examinations for 2016/2017 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN

AGRICULTURAL EDUCATION AND EXTENSION

SPECIAL EXAMINATION

EAG 0222: AGRICULTURAL EDUCATION TECHNOLOGY

DATE:

TIME: 2 HOURS

Instructions:

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

SECTION A: 30 MARKS

QUESTION ONE

- a) Explain FOUR benefits of using a flip chart in teaching Agriculture (2 marks)
- b) Outline FOUR barriers to effective communication during class instruction (2 marks)
- c)
 - i) One of the challenges faced by the agriculture teacher is acquisition of teaching /learning resources. Explain FOUR ways of addressing this challenge. (4 marks)
 - ii) Explain the procedures used to preserve pests for teaching and learning agriculture (3 marks)
- d) Explain FIVE factors to consider when selecting appropriate teaching aids (5 marks)
- e) Describe FOUR ways of preparing a chalkboard for instruction (2 marks)
- f)
 - i) Describe FIVE hints on effective use of a chalkboard (5 marks)
 - ii) Differentiate between a chart and a poster (2 marks)
- g) Describe FIVE ways of creating emphasis or contrast in a chart design (5 marks)

QUESTION TWO

- a) Design a power point presentation (15 slides), in an agriculture topic of your choice with clearly Stipulated “SMART” objectives (between 3 and 4 objectives) (12 marks)
- b) Using a suitable technique, draw a sketch of a rabbit and enlarge it (scale of 1:2) (8 marks)

QUESTION THREE

- a) Explain the factors to consider when using photographs and pictures in teaching agriculture (6 marks)
- b) Explain FOUR merits and FOUR demerits of using photographs during classroom instruction (8 marks)
- c) Explain common mistakes on usage of pictures and photographs in teaching agriculture. (6 marks)

QUESTION FOUR

- a) Explain SIX disadvantages of using realia to teach agriculture (6 marks)
- b) Using relevant examples in each case, describe SIX types of charts that can be used in teaching Agriculture (6 marks)
- c) Describe the steps to follow when setting up an overhead projector in readiness for instruction (8 marks)

QUESTION FIVE

Giving relevant examples explain the significance of using training resources in teaching/ learning agriculture and Biology (20 marks)