

MACHAKOS UNIVERSITY

University Examinations for 2016/2017

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

FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AGR 100: INTRODUCTION TO AGRICULTURE

DATE: 30/5/2017 TIME: 8:30 – 10:30 AM

INSTRUCTIONS:

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

SECTION A: COMPULSORY

OUESTION ONE (30 MARKS)

- a) Explain four reasons why classification is important in crop production (4 marks)
- b) With three reasons, explain why a farmer should be advised to use minimum tillage

(3 marks)

- c) Explain four reasons why farmers are advised to practice early planting in maize production (4 marks)
- d) i) Explain two methods of categorizing the country into various zones (2 marks)
 - ii) Explain two roles played by agriculture in country's development (2 marks)
- e) A farmer intend to plant maize in a 20 ha piece of land. If the spacing is 90cm x 25 cm estimate the plant population (3 marks)

- f)
 i) Calculate the amount of fertilizer to be applied in Kg/ha and in 50-kg bags, using the carrier as Sulphate of Ammonia (21% N), if the recommended rate is 80 kg

 N/ha

 (4 marks)
 - ii) With an example in each case, explain the role of the following management practices in livestock production. (6 marks)
 - i) Debeaking
 - ii) Dehorning
 - iii) Steaming up
- g) With an example in each case, explain three reasons for value addition in crop and livestock production. (3 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

QUESTION TWO (20 marks)

- a) Explain any five cropping systems that can be adapted by Kenyan farmers (10 marks)
- b) Discuss five causes of food insecurity in Kenya (10 marks)

QUESTION THREE (20 MARKS)

- a) Explain five factors that affect livestock production in Kenya (10 marks)
- b) Explain five ways Kenyan farmers use in conservation of water in their farms (10 marks)

QUESTION FOUR (20 MARKS)

Explain 10 importance of pests/parasites and diseases in crop and livestock production

(20 marks)

QUESTION FIVE (20 MARKS)

- a) Explain any six methods a farmer can successfully employ to manage weeds in crops
 - (12 marks)
- b) Explain four methods of reducing post-harvest losses in crop production (8 marks)