



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

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

KRM 308: ANNUAL CROPS

DATE:

TIME:

INSTRUCTION TO CANDIDATES:

ANSWER *ALL* QUESTIONS FROM SECTION A AND ANY OTHER *TWO*
FROM SECTION B:

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE

- a) i) Explain why pigeon pea is an annual crops (2 marks)
ii) Explain the four roles of annual crops in the country's development. (4 marks)
- b) Explain two the uses of the following crops (8 marks)
- i) Finger millet
 - ii) Oats
 - iii) Barley
 - iv) Sunflower
- c) i) Explain four reasons why sorghum and cassava production should be encouraged in semi- arid parts of Kenya (4 marks)
- d) Explain five factors that are considered in selection of suitable maize varieties (5 marks)

- e) Explain two roles of the following in production of chickpeas and cowpea. (6 marks)
- i) Temperature
 - ii) Rainfall
 - iii) Soils
- f) Explain two reasons why a farmer should be advised to plant cotton (2 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

QUESTION TWO

- a) With specific crop example, explain three roles the following practices in crop production (12 marks)
- i) Hilling
 - ii) Mulching
 - iii) Fertilization
 - iv) Intercropping
- b) Describe four methods of planting yams (8 marks)

QUESTION THREE

- a) Outline the procedures used in beans production. (15 marks)
- b) Explain five measures used in pulse disease control. (5 marks)

QUESTION FOUR

- a) Describe two methods of planting rice. (12 marks)
- b) Explain two advantages and two disadvantages of each method in (a) above. (8 marks)

QUESTION FIVE

- i) Explain the production of tobacco under the following headings (10 marks)
- i) Planting
 - ii) Fertilization
 - iii) Harvesting
- ii) Explain production of sweet potato under the headings (10 marks)
- i) Ecological conditions
 - ii) Pests damage and their management