



MERU UNIVERSITY COLLEGE OF SCIENCE & TECHNOLOGY

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University Examinations 2011/2012

FIRST YEAR, SECOND SEMESTER EXAMINATIONS FOR DIPLOMA IN
AGRICULTURE AND AGRICULTURAL EDUCATION AND EXTENSION

AGR 0222: PRINCIPLES OF HORTICULTURE

DATE: APRIL 2012

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a. Give symptoms and two control methods of the following tomato pests
 - i. Spider mites (4 Marks)
 - ii. Bacterial spot (4 Marks)
- b. (i) What is horticulture (2 Marks)
(ii) Name any three branches of horticulture (3 Marks)
- c. Name the two allied horticultural industries (2 Marks)
- d. Explain how horticulture helps to create job opportunities to young Kenyans (3 Marks)
- e. (i) what is a cut flower (2 Marks)
(ii) cut-flowers are recommended to be harvested at old stage. Give three reasons for this (3 Marks)
- f. (i) What is pulsing as used in cut flower industry (2 Marks)
(ii) Give three reasons for pulsing (3 Marks)
- g. Name any two grades of French beans (2 Marks)

QUESTION TWO (15 MARKS)

- a. Explain how you can establish and manage a tomato nursery (10 Marks)
- b. Explain the harvesting procedure of fresh tomatoes (5 Marks)

QUESTION THREE (15 MARKS)

- a. State and explain any five causes of deterioration of cut-flowers (10 Marks)
- b. State the post harvest handling practices undertaken in cut-flowers (5 Marks)

QUESTION FOUR (15 MARKS)

- a. Name any three classes of roses (3 Marks)
- b. What are the four major uses of rose flowers (4 Marks)
- c. (i) Name any two pests and two diseases which affect rose flowers (4 Marks)
(ii) State two methods of controlling any pest and any disease above (4 Marks)

QUESTION FIVE (15 MARKS)

- a. Using symptoms how can you differentiate American bollworm infection from red spider mites infection (4 Marks)
- b. Give two symptoms of powdery mildew in French beans (2 Marks)
- c. Explain the harvesting procedure of French beans in details (4 Marks)
- d. Explain how a farmer can control weeds in a French beans farm (5 Marks)