

University Examinations 2011/2012

SECOND YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURE

AGR 0222: HORTICULTURE PRODUCTION

DATE: AUGUST 2011

TIME: 1½ HOURS

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

QUESTION ONE – (30 MARKS)

- (a) What is horticulture? (3 Marks)
- (b) Name any three major branches of horticulture. (3 Marks)
- (c) State any four importance of horticulture to the Kenyan. (4 Marks)
- (d) State any four methods used for classifying horticultural crops. (4 Marks)
- (e) (i) What is a cut-flower. (2 Marks)
(ii) State all the post-harvest handling practices undertaken in tomatoes. (4 Marks)
- (f) Give three classes of vegetables giving an example of each. (6 Marks)
- (g) (i) How do you control Blossom-end rot in tomatoes. (2 Marks)
(ii) State any two symptoms powdery mildew in roses. (2 Marks)

QUESTION TWO – (15 MARKS)

- (a) Briefly explain four causes of deterioration of cut-flowers. (9 Marks)
- (b) (i) Name any two carrot varieties grown in Kenya. (2 Marks)
(ii) Name any two common carrot diseases and their control. (4 Marks)

QUESTION THREE – (15 MARKS)

- (a) Tomatoes are an important fruit vegetable grown by most farmers. Briefly explain how tomatoes are produced from transplanting stage up to harvesting. (10 Marks)
- (b) Briefly explain the importance of:
 - (i) Waxing (2 Marks)
 - (ii) Hot-water treatment in pawpaw. (3 Marks)

QUESTION FOUR – (15 MARKS)

- (a) Briefly explain all the post-harvest practices undertaken in French beans. (10 Marks)
- (b) Why is monel variety common with French bean farmers. (2 Marks)
- (c) Weeding should not be carried during the wet period. Give three reasons for that. (3 Marks)

QUESTION FIVE – (15 MARKS)

Pawpaw is an important fruit crop in Kenyan economy.

- (a) State any four cases of Papayas. (4 Marks)
- (b) Explain how Papayas are produced from planting stage up to packing. (6 Marks)
- (c) Fruit fly is a problematic pest in Pawpaws.
 - (i) State any two symptoms (2 Marks)
 - (ii) Give three methods commonly used for controlling it. (3 Marks)