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University Examinations 2011/2012

SECOND YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURE

AGR 0223: PERENNIAL CROPS

DATE: DECEMBER 2011 TIME: 1½ HOURS

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

QUESTION ONE – (30 MARKS)

(a) What is a banjhi?	(1 Mark)
(b) State any four objectives of pruning tea.	(4 Marks)
(c) How can a farmer control Armillaria root rot disease in coffee?	(2 Marks)
(d) Briefly explain how a tea farmer can gap-up in tea farm.	(4 Marks)
(e) Draw a well labeled diagram of a ripe coffee berry.	(5 Marks)
(f) Give a reason why coffee planting holes should be prepared three months	before planting
date.	(1 Mark)
(g) (i) Give any three varieties of mangoes grown in Kenya.	(3 Marks)
(ii) Give two signs of maturity of mangoes.	(2 Marks)
(h) (i) Name any two planting materials used in establishing bananas.	(2 Marks)
(ii) What is Parthenorcapy?	(1 Mark)
(iii) Give two methods of controlling nematodes in bananas.	(2 Marks)
(i) Give three export banana varieties.	(3 Marks)

QUESTION THREE – (15 MARKS)

Explain how one can establish and manage a tea nursery up to transplanting stage. (15 Marks)

QUESTION THREE – (15 MARKS)

Explain all the post harvest handling practices undertaken in bananas. (15 Marks)

QUESTION FOUR – (15 MARKS)

- (a) Explain the harvesting procedure of mangoes. (5 Marks)
- (b) Explain all the factors which affect the quality coffee produced. (10 Marks)

QUESTION FIVE – (15 MARKS)

(a)

- i. How does lime application help tea bushes? (4 Marks)
- ii. Name any two chemicals which can be used in a tea farmer to lower the soil pH. (2 Marks)
- iii. State three factors considered when selecting mother bushes to produce stem cuttings. (3 Marks)
- (b) Briefly explain how you can establish a single stem pruning system and state two advantages and disadvantages. (6 Marks)