University Examinations 2012/2013

SECOND YEAR, SECOND SEMESTER EXAMINATIONS FOR CERTIFICATE/DIPLOMA IN AGRICULTURE

AGR 0223: PERENNIAL CROPS

DATE: AUGUST 2013   **TIME: 1½HOURS**

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

QUESTION ONE – (30 MARKS)

a. State the optimum ecological requirements for tea production.   (10 Marks)
b. Differentiate between single stem and multiple stem pruning of coffee.   (4 Marks)
c. Explain the factors that influence sugarcane quality after harvesting.   (6 Marks)
d. State the factors which affect the quality of pyrethrum flowers produced. (4 Marks)
e. Name the causal agent and state one control of the following crop diseases.
    i.   Coffee berry disease   (3 Marks)
    ii.   Armlulborra root rot   (2 Marks)
    iii.   Sugarcane smut   (2 Marks)

QUESTION TWO – 15 MARKS

a. Explain the transplanting process of coffee seedlings in the main field.   (7 Marks)
b. Differentiate between cherry and parchment coffee.   (4 Marks)
c. State four factors which affect the quality of coffee produced in the farm. (4 Marks)

QUESTION THREE – 15 MARKS

a. Sugarcane is established using stem cuttings. State the factors considered when selecting a variety to plant in a given area.   (5 Marks)
b. Explain the process of establishing sugarcane planting materials and the remedial actions for varieties with poor regenerative potential.   (10 Marks)

QUESTION FOUR – 15 MARKS

a. State the factors which affect the pyrethrum content in pyrethrum flowers. (8 Marks)
b. Describe the post harvesting practices of handling pyrethrum flowers.   (7 Marks)

QUESTION FIVE – 15 MARKS

a. Outline the two tea pruning methods. (4 Marks)
b. What are the main uses of pyrethrum? (4 Marks)
c. State the symptoms and control of bacterial blight in coffee. (4 Marks)
d. Outline the stages of sugarcane processing. (3 Marks)