



# The Co-operative University of Kenya

**END OF SEMESTER EXAMINATION AUGUST -2018**

**EXAMINATION FOR THE DIPLOMA IN AGRIBUSINESS MANAGEMENT**

**(YR II SEM I)**

**UNIT CODE: DAFS 2111**

**UNIT TITLE: PERENNIAL CROPS**

**DATE: 24<sup>TH</sup> AUGUST, 2018**

**TIME: 9:00 AM – 11:00 AM**

## **INSTRUCTIONS:**

- Answer question **ONE (compulsory)** and any other **TWO** questions

### **QUESTION ONE**

- (a) Discuss the role of perennial crops to the economy of a country. (9 Marks)
- (b) Name TWO varieties of each of the following crops. (6 Marks)
- (i) Coffee
  - (ii) Tea
  - (iii) Sugar cane
- (c) Explain why change of cycle in coffee production is necessary. (4 Marks)
- (d) Name the planting materials for each of the following crops (3 Marks)
- (i) Coffee
  - (ii) Tea
  - (iii) Sisal
  - (iv) Pyrethrum
  - (v) Sugarcane
  - (vi) Coconut
- (e) Explain the following pruning technique as used in perennial crops. (8 Marks)
- (i) Multiple stem pruning
  - (ii) Stem capping
  - (iii) Deshooting
  - (iv) Nipping

### **QUESTION TWO**

- (a) Discuss processing of coffee with reference to the wet method. (10 Marks)
- (b) Briefly outline the advantages of planting coffee seedling in polythene sleeves. (4 Marks)
- (c) List down the contents of potting mixture for coffee seedlings. (4 Marks)
- (d) Name TWO coffee diseases. (2 Marks)

### **QUESTION THREE**

- (a) Explain how Armillaria root rot can be managed in Tea production. (5 Marks)
- (b) Discuss the climatic conditions of tea. (5 Marks)
- (c) Briefly discuss the following:-
- (i) Soil media preparation for vegetative propagation in tea. (5 Marks)
  - (ii) Preparation of tea cuttings for vegetative propagation. (5 Marks)

### **QUESTION FOUR**

- (a) State the various uses of sugarcane. (6 Marks)
- (b) Discuss factors that affect the cane quality. (4 Marks)
- (c) Explain how pyrethrum splits are prepared for planting (5 Marks)
- (d) Discuss the harvesting of pyrethrum (5 Marks)

### **QUESTION FIVE**

- (a) Discuss sisal production under the following subheadings. (20 Marks)
- (i) Ecological requirements (4 Marks)
  - (ii) Planting materials (4 Marks)
  - (iii) Field maintenance (4 Marks)
  - (iv) Harvesting (4 Marks)
  - (v) Pest and diseases. (4 Marks)