



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND
EXTENSION

FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)

AGRO 361: PERENNIAL CROPS

STREAM: Y3 S1

TIME: 2 HOURS

DAY: FRIDAY, 12:00 P.M – 2:00 P.M

DATE: 09/12/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer Question ONE (Compulsory) and any other THREE Questions.***

- Q1. (a). Outline functions of the three major macronutrient requirements in coffee. (6marks)
- (b).(i).Distinguish between fine plucking and coarse plucking as used in tea harvesting. (2marks)
- (ii). Explain the advantage of fine plucking practice in tea (2marks)
- (c). Highlight any four uses of sugarcane (4marks)
- (d). Explain why proper timing is critical in pyrethrum harvesting(5marks)
- (e). Briefly describe;
- (i). The cashew nut tree (3marks)
- (ii). The cashew nut fruit (nut) (3marks)
- (f). Outline the ecological requirements of coconut (5marks)
- (g). Describe symptoms of husk spot disease in macademia nuts (5marks)
- (h). Describe the growth habits of sisal (5marks)

- Q2. Discuss sugarcane quality parameters for assessing cane maturity (10marks)
- Q3. Briefly discuss the following stages in coffee processing
- (a) Cherry sorting (3marks)
 - (b) Pulping (3marks)
 - (c) Drying (4marks)
- Q4.(a). Explain how altitude and temperature affect pyrethrum growth and quality (5marks)
- (b). Outline damage of the following pests on pyrethrum
- (i). Flower thrips (3marks)
 - (ii). Red spider Mites (2marks)
- Q5. Discuss sisal production under the subheadings
- (a) Plant description (5marks)
 - (b) Propagation (5marks)