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**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER  
SPECIAL/SUPPLEMENTARY EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE  
AND BIOTECHNOLOGY**

**COURSE CODE: ACR 211**  
**COURSE TITLE: PRINCIPLES OF CROP HUSBANDRY**  
**DATE 2<sup>ND</sup> AUGUST 2023 TIME: 8 – 10 AM**

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**INSTRUCTIONS TO CANDIDATES**

**Answer Question ONE and any other TWO Questions.**

**TIME: 2 Hours**

**This paper consists of 2 printed pages. Please Turn Over**



QUESTION 1.

- a) Outline the importance of soil testing(4marks)
- b) Define a crop pest and explain any THREE categories of crop pests (4marks)
- c) State any FOUR environmental factors that affect crop growth and yields (4 marks)
- d) Define Land Equivalent Ratio (LER) and its implication in any intercropping system (2marks)
- e) Explain Two benefits of proper spacing in crops(4marks)
- f) State any FOUR types of plant disease pathogens (4 marks)
- g) Outline THREE types of tillage (3 marks)
- h) State the methods of crop improvement (3marks)
- i) List the problems that result from storing grains with high moisture (2marks)

QUESTION 2.

Good crop husbandry practices are key to the realization of high optimal crop yields for food security and incomes. Discuss. (20marks)

QUESTION 3

- a) Describe the process of production of hybrid seed (10mks)
- b) Discuss the Classification of weeds based on life cycle, habitat, growth habit, morphology and climate (10marks)

QUESTION 4

- a) Crop pests are a major cause of food insecurity in sub-Saharan Africa. Outline measures that should be applied to curb their effect on food loss? (20 marks)

QUESTION 5

- a) Briefly explain any five (5) methods of fertilizer application in crop production(5marks)
- b) Describe the agro ecological zones (AEZs) and their implication on crop distribution in Kenya (15mks)