

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN AGRICULTURE

AGRI 482: CROPPING SYSTEMS

STREAMS: BSC. AGRI (Y4S2)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 23/04/2025

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS

1.

- a) Explain how resource use efficiency is achieved as a benefit in multiple cropping systems. (4 marks)
- b) Explain the effects that cropping systems can have on water quality. (4 marks)

2. Explain double cropping and intercropping as systems of cultivation in multiple cropping systems. (6 marks)

3. Describe the four main types of cropping systems. (8 marks) 2 marks @

4. Explain autotoxicity in crops and give examples on known effects. (8 marks)

Section B – Answer Any Two Questions (40 Marks)

5.

- a) Describe how mixed cropping can enhance pests and diseases control and how such a system may also contribute to pest attacks. (8 marks)
- b) Discuss the merits that sometimes attract farmers to mono-cropping systems of cultivation. (12 marks)

6.

- a) Describe the major reasons for recent interest in mixed farming system of cultivation. (8 marks)

b) Discuss water use efficiency in multiple cropping systems. **(15 marks)**

7.

a) Discuss the benefits accrued from practicing a cereal-legume intercropping system. **(10 marks)**

b) Explain factors that may influence a farmer's decision on the choice of crops to plant. **(10 marks)**

.....