



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

SECOND YEAR 2ND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
EDUCATION AND EXTENSION**

COURSE CODE: ACR 222
COURSE TITLE: ANNUAL CROPS

DATE: 28TH JULY 2022

TIME: 11AM – 1 PM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) (i) Identify six (6) distinct growth stages in Wheat (*Triticum aestivum*) (6 marks)
(ii) List four (4) benefits of planting crops from certified seed (4 marks)
 - (b) A Rice (*Oryza sativa*) farmer in Kisumu County was advised to purchase NPK 20:36:18 fertilizer and apply on his 3-acre field at 54 kg P_2O_5 per ha at planting and 60 kg N as top dress from CAN (26% N)
 - (i) How much fertilizer did he purchase in 50 kg bags? (4 marks)
 - (ii) How much Nitrogen (N), and Potassium (K) was applied per acre? (6 marks)
 - (c) (i) List three (3) field and storage pests of annual crops by common and botanical names. (6 marks)
(ii) Mention four (4) methods of curing Tobacco (*Nicotiana tabacum*) (4 marks)
2. Discuss the factors that influence the distribution of annual crops in Kenya (20 marks)
 3. Explain the agronomical requirements for field production of Rice (*Oryza sativa*) in Kenya. (20 marks)
 4. Discuss the agronomical requirements for field-grown Common Beans (*Phaseolus vulgaris*) (20 marks)
 5. Explain the classification of annual crops in East Africa giving relevant examples. (20 marks)