



(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

## UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

## SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATIONS FOR THE DEGREE OF BSC IN:

### AGRICULTURE & BIOTECHNOLOGY & AGRICULTURAL EDUCATION AND EXTENSION

COURSE CODE:

ACR 203

COURSE TITLE:

ANNUAL CROPS

**DATE: 25/7/2022** 

TIME: II-IPM

Instruction to candidates

Answer ALL Question in Section A and ANY TWO Questions in section B

MMUST observes ZERO tolerance to examination cheating

SECTION A

This paper consists of TWO (2) printed pages. Please turnover

### SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (40 Marks)

- Q1. (a) Give the common means of propagation for the following crops (5 marks)
  - (i) Sorghum
  - (ii) Sweet potato
  - (iii) Irish potato
  - (iv) Arrow root
  - (v) Sunflower
  - (b) Describe how each of the crops in (1a) above is harvested (5 marks)
- Q2. Briefly describe
  - (a) The baking quality of what

(5 marks)

(b) The malting quality of barley

(5 marks)

Q3. (a) List one pest and one disease of sorghum

(2 marks)

- (b) For the pest in (3a) explain the damage it causes
- (2 marks)
- (c) For the disease in (3a) give the causal agent, two symptoms and three management practices employed in its control (6 marks)
- Q4. Explain the botanical difference between potato (*Solanum tuberosum*) and sweet potato (*Ipomoea batatas*) (10 marks)

#### SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION (30 Marks)

- Q5. Discuss the production challenges faced by small scale farmers explaining how each of the challenges may by overcome (15 marks)
- Q6. Discuss the processing and economic importance of rice in Kenya (15 marks)
- Q7. Discuss the agronomic practices of one of the following crops (15 marks)
  - (i) Arrow root (Colocasia esculenta)
  - (ii) Common beans (Phaseolus vulgaris)
  - (iii) Finger millet (Eluisine coracana)