

110



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF BSC IN:
AGRICULTURE & BIOTECHNOLOGY &
AGRICULTURAL EDUCATION AND EXTENSION

COURSE CODE: ACR 203

COURSE TITLE: ANNUAL CROPS

DATE: 19TH APRIL

TIME: 8-10am

Instruction to candidates

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

MMUST observes ZERO tolerance to examination cheating

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

SECTION A

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

- Q1. Define the following terms as commonly applied in crop production (10 marks)
- (i) Intercropping
 - (ii) Hybrid variety
 - (iii) Earthing up
 - (iv) Chitting in potato
 - (v) Rogueing
- Q2. (a) Describe how cereals are affected by striga weed. (6 marks)
(b) Explain the characteristics that make sorghum withstand low moisture content during its growth (4 marks)
- Q3. (a) List one pest and one disease of beans (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. (a) Describe the ecological requirements of rice (6 marks)
(b) Explain the unique characteristics of a rice plant (4 marks)

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

- Q5. Describe the agronomic practices employed in the production of one of the following crops (15 marks)
- (i) Beans
 - (ii) Groundnut
 - (iii) Sweet potato
- Q6. Discuss the processing and economic importance of wheat in Kenya (15 marks)
- Q7. Discuss the production challenges faced by small scale farmers explaining how each of the challenges may be overcome (15 marks)