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ASS 203



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND
TECHNOLOGY (SAVET)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**MAIN EXAMS
OF
BACHELOR OF AGRICULTURE AND BIOTECHNOLOGY**

COURSE CODE: ASS 203

COURSE TITLE: SOIL AND WATER CONSERVATION

DATE: 14.12.23

TIME: 3-5PM

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, **A and B**. Answer ALL Questions in SECTION A and any Two in SECTION B

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over

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SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

- Q1. Outline four recognized stages of gully development (4mks)
- Q2. Describe three ways of losing water from the soil (3mks)
- Q3. Describe four factors influencing soil erosion (4mks)
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- Q4. Describe four importance of bench terraces (4mks)
- Q5. State five factors responsible for loss of soil fertility (5mks)
- Q6. Describe four types of micro-catchments used in Kenya (4mks)
- Q7. Describe four on-site effects of soil erosion (4mks)
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- Q8. Describe three types of irrigation used by most farmers in Kenya (4mks)
- Q9. Outline four agents of soil erosion (4mks)
- Q10. Enumerate four objectives of conserving water and soils in agriculture (4mks)

SECTION B

- Q11. i) Discuss three agronomic practices of soils and water conservation (9mks)
- ii) Discuss the process of soil transportation by running water (6mks)
- Q12. i) Discuss three water harvesting methods used by agropastoral (9mks)
- ii) Discuss the importance of agroforestry in soil conservation (6mks)
- Q13. i) Discuss how climate change may affect the conservation of water

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(9mks)

ii) Discuss ways of controlling and preventing erosion

(6mks)

Q14. i) Discuss three factors that affect wind erosion

(9mks)

ii) Discuss three methods for controlling surface run-off

(6mks)

