

MAASAI MARA UNVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR FIRST YEAR FIRST SEMESTER

SCHOOL OF NATURAL RESOURCES, TOURISM AND HOSPITALITY

MASTER OF ENVIRONMENTAL STUDIES (ENVIRONMENTAL HEALTH)

COURSE CODE: SES 801

COURSE TITLE: EARTH SYSTEM SCIENCE I

DATE: 9TH FEBRUARY 2023 TIME: 10.00AM-1.00PM

INSTRUCTIONS TO CANDIDATES

Section A is compulsory. Answer any **THREE** questions in Section B

This paper consists of 2 printed pages. Please turn over

SECTION A: (25 MARKS)

Q1. Highlight how energy flows across ecosystems for increased efficiency

(5 Marks)

- **Q2**. Briefly discuss the supply side of the environmental concerns in the energy sector in Africa (5 Marks)
- Q3. Assess the demand side of the environmental concerns in the energy sector in East Africa (5 Marks)
- **Q4**. Using examples, explain policy strategies for effective management of the mining sector in Kenya (5 Marks)
- **Q5.** Highlight the key challenges and strategies for hydropower energy development in East Africa (5 Marks)
- **Q6**. Assess the applicable policies for Geothermal resources development in Kenya (5 Marks)

SECTION B: (45 MARKS)

- **Q7.** Discuss the Integrated Solid Waste Management process for increased efficiency in waste management in Africa (15 Marks)
- **Q8.** Discuss the impacts of Climate Change on Water Resources in Narok County (15 Marks)
- **Q9.** Discuss mechanisms for the management and remediation of polluted soils in Kenya (15 Marks)
- **Q10.** Discuss air pollution policies for enhanced air quality in Kenya (15 Marks)