



(University of Choice)
**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER MAIN EXAMINATIONS
FOR THE BACHELOR OF SCIENCE
IN
DISASTER MITIGATION AND SUSTAINABLE DEVELOPMENT**

COURSE CODE: DSM 305

COURSE TITLE: ENVIRONMENTAL TECHNOLOGY

DATE: 27/4/2023 TIME: 12-2 PM

INSTRUCTIONS TO CANDIDATES

Question **ONE (1)** is compulsory
Answer any other **TWO (2)** questions

TIME: 2 Hours

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

QUESTION ONE

Evaluate how technology has contributed to global warming in the 21st century.
(8 Marks)

Using examples, explain the term environmental technology. **(10 Marks)**

Discuss how modern environmental technologies have contributed to waste minimization.
(8 Marks)

Explain the major changes which took place during the industrial revolution
(4 Marks)

QUESTION TWO

Explain the concept of geoengineering or climate engineering and state why it is important today. **(4 Marks)**

Explain techniques you are likely to apply or recommend for solar radiation management in Kakamega County. **(8Marks)**

Discuss different techniques you are likely to recommend or adopt for carbon dioxide removal in the atmosphere here at MMUST. **(8 Marks)**

QUESTION THREE

Examine the importance of environmental technologies in degraded stream restoration in Africa. **(10 Marks)**

Discuss the major technological changes which took place during the industrial revolution.
(10 Marks)

QUESTION FOUR

Population growth has been cited as a major threat to environmental degradation in Africa. Discuss the nexus between environmental technologies and birth control.
(10 Marks)

Account for the contribution of modern technologies to deforestation in Africa.
(10 Marks)