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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2023/2024 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH

COURSE CODE: HEH 316

COURSE TITLE: HAZARDOUS WASTE MANAGEMENT

DATE: 7/12/2023

TIME: 11.00-1.00 PM

INSTRUCTIONS TO CANDIDATES:

Answer All Questions in Section A and Any Two Questions in Section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

1. Define the following terminologies as used in Hazardous waste management (5 marks)
 - a) Incineration
 - b) Healthcare waste
 - c) Recycling
 - d) Hazardous wastes
 - e) Segregation
2. Name any six institutions that are involved in generation of bio-medical wastes in Kenya (6 Marks)
3. What are the unique characteristics of hazardous wastes that makes its management special as compared to municipal solid waste (4 marks)
4. Name at least six serious short-and-long-term effects of hazardous waste on the human health (6 marks)
5. List the main sources of Hazardous Wastes (5 Marks)
6. Which hazardous waste treatment & Disposal Technologies are used in management of Hospital waste in Kenya (5 marks)
7. State the laws and regulations applied in management of hazardous waste in Kenya (5 Marks)
8. Name the different types of Radioactive Wastes in Kenya (4 Marks)

SECTION B: ANSWER ANY TWO (2) QUESTIONS (30 MARKS)

9. Hazardous waste can be classified in different categories. Describe the categories of hazardous waste giving examples for each (15 Marks)
10. Describe the process of Hazardous waste management highlighting the step-by-step functional elements (15 Marks)
11. Public Health Officers are mandated to ensure proper management and disposal of hazardous waste. Discuss the factors that can contribute to pollution prevention and waste minimization (15 Marks)