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*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**UNIVERSITY REGULAR EXAMS**  
SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR  
SECOND YEAR SECOND TRIMESTER -DIRECT**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN GLOBAL  
HEALTH**

**COURSE CODE: NCG 221  
COURSE TITLE: HAZARDOUS WASTES**

**DATE: 20<sup>TH</sup> WEDNESDAY, APRIL 2022**

**TIME: 8AM-11AM**

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INSTRUCTIONS TO CANDIDATES

All questions are compulsory

**DURATION: 3 Hours**

MMUST observes ZERO tolerance to examination cheating

This paper consists of 2 (two) printed pages. Please turn over.

**SECTION A: SHORT ANSWER QUESTIONS (SAQs) 60 Marks**

1. (a) What are hazardous wastes (1 Mark)  
(b) Describe your understanding on the following terminologies as used in hazardous waste management
  - (i) Ignitability (2 Marks)
  - (ii) Corrosivity (2 Marks)
  - (iii) Flammability (2 Marks)
  - (iv) Coliforms (2 Marks)(c) Classify hazardous wastes (8 Marks)
2. What are the different sources of hazardous materials (8 Marks)?
3. By use of drawings describe any 4 signs used in determination of hazardous materials (8 Marks)
4. What is your role as a global health specialist in managing hazardous waste (8 Marks)?
5. (a) When do we say a substance is toxic (1 Mark)  
(b) Differentiate between
  - (i) a toxin and a toxicant in reference to toxic wastes (2 Marks)
  - (ii) an acute and chronic exposure (2 Marks)
  - (iii) a teratogen and mutagen (2 Marks)
6. Describe the international laws and conventions governing management of hazardous wastes (12 Marks)

**SECTION B: LONG ANSWER QUESTIONS (LAQs) 40 Marks**

1. Discuss the types, sources, the people at risk and ways of management of hazardous biological wastes (20 Marks)
2. Discuss the sources, classifications, types, effects and control of radioactive wastes (20 Marks)

END