



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

REGULAR UNIVERSITY EXAMS

SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES

ACADEMIC YEAR

2021/2022

FOR THE DEGREE OF BACHELOR OF SCIENCE IN GLOBAL HEALTH

COURSE CODE: NCG 324

COURSE TITLE: WASTE MANAGEMENT AND SANITATION

DATE: 20TH WEDNESDAY, APRIL 2022 TIME: 8AM-11AM

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.

NCG 221: WASTE MANAGEMENT AND SANITATION

SECTION A: SHORT ANSWER QUESTIONS (SAQS); 60 MARKS

Answer all the questions

- 1. (a) Describe the following terminologies as used in waste management
 - (i) Bioaccumulation (2 Marks)
 - (ii) Putrescibility (2 Marks)
 - (b) Differentiate between a recalcitrant and a biodegradable compound (4 Marks)
- 2. Describe the health and environmental effects that come as a result of poor waste management (8 Marks)
- 3. Describe any three (3) world conventions of waste management (12 Marks)
- 4. How would you manage biological wastes from hospital settings (8 Marks)
- 5. What considerations would you put in mind before constructing a sanitary land fill (8 Marks)
- 6. Describe biological oxygen demand (BOD) and chemical oxygen demand (COD in terms of;
 - (a) differences (4 Marks)
 - (b) How their measurements are done (4Marks)
- 7. Describe your role as a global health student in the management of wastes (8 Marks)

SECTION B: LONG ESSAY QUESTIONS (LEQS); 40 MARKS

All the questions are compulsory

- 1. You have been employed as safety officer at Webuye Pan-paper Mill's factory. How would you manage gaseous waste emanating from the factory (20 Marks)
- 2. Characterize wastes in terms of their physical, chemical, biological and radioactive natures (20 Marks)

End