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(University of Choice)

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY**

**(MMUST)**

**MAIN CAMPUS**

**MAIN EXAMINATIONS**

**2023/2024 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER EXAMINATIONS**

**For**

**B.Sc. Disaster Preparedness and Environmental Technology**

**COURSE CODE: DPE 205**

**COURSE TITLE: Environmental Health Engineering**

**DATE: 13/12/2023**

**TIME:12-2PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Question ONE and any other TWO Questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

**SECTION 1: COMPULSORY {30 MARKS}**

**Question ONE**

- a). Environmental health is a combination of two broad dimensions, that is, environment and health, explain (5 Marks)
- b). Broadly, physical, social and individual factors influence human health, Discuss (15 Marks)
- c). Examine the biological parameters important in determining quality of drinking water (10 Marks)

**SECTION II: ATTEMPT ANY OTHER TWO (2) QUESTIONS {40 MARKS}**

**Question TWO**

Discuss the various effects of water pollution on human health (20 Marks)

**Question THREE**

- a) Discuss the process of water treatment in a typical water treatment plant (10 Marks)
- b) Describe the component of sewerage system from its points of origin to a point of treatment and disposal (10 Marks)

**Question FOUR**

- a) Explain any types of waste water (10 Marks)
- b) Briefly examine the organic and inorganic matter composition of wastewater (10 Marks)