



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2019 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

REGULAR PROGRAMME

GES 322: WATER QUALITY RESOURCE AND ANALYSIS

Date: APRIL 2019

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

Q1. a) Elaborate the meaning of the following terms in relation to water quality

(6marks)

- i) Turbidity
- ii) B.O.D
- iii) Odourless

b) Identify **two** types of pollution in water **(4marks)**

c) Highlight the **three** treatment methods used in
i) Water treatment **(3 marks)**

ii) Explain any one treatment method mentioned above
(12 marks)

d) Identify any two sources of pollutants in water **(2marks)**

e) Elaborate the **three** R's as used in waste management in water **(3 marks)**

Q2. a) Explain the **THREE** waste water types that need to be managed to curb environmental pollution **(6marks)**

b) Explain the chemical properties of water and how it is held by strong covalent bonds **(2 marks)**

- c) Elaborate the three main methods of waste treatment **(12 marks)**
- Q3. Discuss the global hydrological cycle as a source of water to the ecosystems **(20marks)**
- Q4. a) Illustrate the FOUR main sources of water supply **(8marks)**
b) Elaborate the THREE tests done on water to ascertain its quality usage **(12 marks)**
- Q5. Discuss the various human activities affecting water quality and leading to the main source of pollutants **(20 marks)**

END