



TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT

APH 2105: FOUNDATIONS OF ENVIRONMENTAL HEALTH

SPECIAL/ SUPPLEMENTARY EXAMINATIONS

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

*Instructions to Candidates*

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

*This paper consists of two printed pages.*

*Mobile phones are NOT allowed in the examination room*

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**QUESTION ONE**

- a) Differentiate the following terms giving appropriate examples.
  - i. Environmental sciences and environmental health (4 marks)
  - ii. Linear effect of pollutant and the threshold effect of pollutant (4 marks)
  - iii. Non- degradable pollutants and biodegradable pollutant (4 marks)
- b) Briefly describe pollutants according to physical states giving appropriate examples. (4 marks)
- c) Explain the major functions of Hydrosphere as a resource. (4 marks)
- d) Differentiate between Water-borne disease and water related diseases giving two examples of each. (4 marks)
- e) Describe the bacteriological analysis of water (4 marks)
- f) Outline four types of pollution (2 marks)

**QUESTION TWO**

- a)
  - i). Define Water pollution (1 mark)
  - ii). Briefly describe the major drivers of water pollution in Kenya today (4 marks)
- b) Describe the common characteristics of polluted water (5 marks)
- c) Discuss strategies of controlling and preventing of water pollution (5 marks)

**QUESTION THREE**

Discuss the merits and demerits of the following methods of excreta waste disposal

- a) Pit latrines (5 marks)
- b) Flush toilets (4 marks)
- c) Bucket Latrines (3 marks)
- d) Composting pit latrines (3 marks)

**QUESTION FOUR**

- a) Outline the advantages and disadvantages of
  - i. Surface waters (rain water, rivers, lakes, and ponds). (3 marks)
  - ii. underground water (3 marks)
- a) Describe strategies for protecting the following water sources
  - i. A well (6 marks)
  - ii. A spring (3 marks)

**QUESTION FIVE**

You have been appointed as Community health worker in a rural county. Inform the community in a public barazaa the importance of proper excreta disposal in ensuring good community health (15 marks)