

TECHNICAL



UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ENVIRONMENTAL HEALTH

APH 2105: FOUNDATIONS OF ENVIRONMENTAL HEALTH

END OF SEMESTER EXAMINATION

SERIES:AUGUST2019

TIME:2HOURS

DATE:Pick DateDec2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE**Question(s). Attemptquestion ONE (Compulsory) and any other TWO questions.

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)