

# TECHNICAL UNIVERSITY OF MOMBASA

## FACULTY OF APPLIED AND HEALTH SCIENCES

### DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

#### UNIVERSITY EXAMINATION FOR THE DIPLOMA COMMUNITY HEALTH

DCH 16S/YEAR 1/ SEMESTER1

APH 2105: FOUNDATIONS OF ENVIRONMENTAL HEALTH

END OF SEMESTER EXAMINATION

**SERIES:DECEMBER2016**

**TIME:2HOURS**

**DATE:Pick DateDec2016**

#### 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). Attempt question 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)