



**TECHNICAL UNIVERSITY OF MOMBASA**  
**Faculty Business & Social Studies**

DEPARTMENT OF LIBERAL STUDIES & COMMUNITY DEVELOPMENT  
DIPLOMA IN COMMUNITY DEVELOPMENT & COUNSELLING  
(DCDC Y2 S1)

APH 2207: ENVIRONMENTAL HEALTH

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2014**

**TIME ALLOWED: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of sections **A** and **B**

Answer question **ONE (Compulsory)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

## SECTION A (COMPULSORY)

### Question One

- a) Define the following concepts:
- (i) Toxicity (2 marks)
  - (ii) Exposure (2 marks)
  - (iii) Community resources and action (2 marks)
- b) State the differences between pyrolysis and plasma gasifier (4 marks)
- c) List any FIVE activities that epidemiologists are involved with (5 marks)
- d) Identify the different forms of chlorination of water (5 marks)
- e) Explain briefly the working of a sanitary landfill (5 marks)
- f) State THREE ways in which housing affects mental health of people (3 marks)
- g) Identify the means by which food can be source of disease. (4 marks)

## SECTION B (Attempt any TWO questions)

### Question Two

- a) Give a general definition of epidemiology as used in public health. (2 marks)
- b) Discuss disease determinants using specific epidemiologic triangles (18 marks)

### Question Three

Explain the effects of pollution on the environment. (20 marks)

### Question Four

Discuss waste management under the following:

- a) Plasma gasifier (5 marks)
- b) Activated sludge (5 marks)
- c) Composting (5 marks)
- d) Anaerobic digesters (5 marks)

### Question Five

Briefly outline the general objectives of epidemiology (20 marks)