



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

## *Faculty of Business & Social Studies*

DEPARTMENT OF LIBERAL STUDIES, COMMUNITY DEVELOPMENT &  
COUNSELING

DIPLOMA IN COMMUNITY DEVELOPMENT & COUNSELLING

(DCDC J08)

## **ENVIRONMENTAL HEALTH EDUCATION**

END OF SEMESTER EXAMS

**SERIES:** APRIL/MAY 2010.

**TIME:** 2 HOURS

### **INSTRUCTIONS TO CANDIDATES**

1. You need to have the following for this examination.
  - Answer booklet.
2. The paper consists of **TWO** Sections **A** and **B**.
3. Section A is COMPULSORY and carries 30 marks.
4. Answer any **TWO** from Section **B**, each carries twenty marks.

## SECTION A

Answer **ALL** questions from this Section – 30 marks

- Q.1 (a) Outline the effects of pollution on:
- (i) Human health. (4 marks)
  - (ii) Environment (4 marks)
- (b) Discuss landfill as a method used in waste disposal. (7 marks)
- (c) Explain the following concepts of environmental health:
- (i) Exposure (5 marks)
  - (ii) Dose/Response. (5 marks)
- (d) List **FIVE** criteria for an adequate village house. (5 marks)

## SECTION B

Answer any **TWO** questions from this Section – 40 marks

- Q.2 (a) Explain how the following are used in secondary sewage treatment:
- (i) oxidation ponds (5 marks)
  - (ii) septic tanks (5 marks)
- (b) (i) Define a pollutant and state the factors that determine its severity. (5 marks)
- (ii) Explain what is meant by waste management. (5 marks)
- Q.3 (a) Discuss food hygiene under the following topics:
- (i) Aim of food hygiene. (2 marks)
  - (ii) Methods of food preservation. (8 marks)
  - (iii) Regulation of food safety. (2 marks)

- (b) Explain what is meant by:
- (i) Environmental justice. (2 marks)
  - (ii) Environmental pathways (2 marks)
  - (iii) Water-wash diseases (2 marks)
  - (iv) Non point-source pollution. (2 marks)

Q.4 The principal processes of a water treatment facility are sedimentation, filtration and disinfection. Explain. (20 marks)