



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN COMMUNITY HEALTH
BCH 13J

**ACH 4100 : FOUNDATIONS OF ENVIRONMENTAL
HEALTH**

SPECIAL/SUPPLEMENTARY EXAMINATION

OCTOBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

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

Question ONE

- a) Define each of the following terminologies as applied in environment health.
 - (i) Environment
 - (ii) Health
 - (iii) Pollution

(3marks)
- b) Distinguish between water borne diseases and water washed diseases **(4marks)**
- c) Explain the effects of aflatoxin in a human body **(4marks)**
- d) State characteristic toxicity symptoms and condition associated with pestides **(4marks)**
- e) Explain the environmental Health effects of ionizing radiation **(4marks)**
- f) State specific issues to consider when designing on environmental inspection tool

(4marks)

Question TWO

Discuss the environmental health problems that could result from use of open dumping and in enumeration **(20marks)**

Question THREE

- a) Explain the meaning of the following
 - (i) Bioaccumulation **(3marks)**
 - (ii) Bio implications **(3marks)**
- b) Describe the major steps of characterization in multi-stage process of carcinogenesis.

(14marks)

Question FOUR

- a) Using a specific industrial site in town illustrate how industrial processes have impacted on the neighbouring communities livelihoods. **(10marks)**
- b) Describe the steps involved in environmental impact assessment (EIA) **(10marks)**

Question FIVE

- a) Preventive Health care has not succeeded in Kenya resulting in emergence and re-emergence diseases and hospital admissions of patients with preventable conditions. This is largely because the environmental Health professionals have not done their good job. Discuss. **(10marks)**
- b) Explain the effects health **(10marks)**