



# MACHAKOS UNIVERSITY

University Examinations 2019/2020 Academic year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE MANAGEMENT)

ECD 403: ENVIRONMENT AND COMMUNITY HEALTH

DATE: 4/12/2019

TIME: 2.00-4.00 PM

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## INSTRUCTIONS:

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

## SECTION A. COMPULSORY (30 MARKS)

### QUESTION ONE (30 MARKS)

- a) Define the following terms. (3 marks)
- Environment
  - Health
  - Hazard
- b) State how health care workers can avoid contamination by biohazards. (3 marks)
- c) Briefly describe the relationship between health and development. (3 marks)
- d) State the importance of partnership in improving community health. (3 marks)
- e) Define the following terms as used in assessing the toxicity of a chemical. (3 marks)
- Lethal Dose
  - Lethal Concentration
  - Relative toxicity
- f) Describe the key actors in the community unit. (3 marks)
- g) Describe the properties of hazardous wastes. (3 marks)

- h) Distinguish between ionizing and non-ionizing radiation and give examples. (3 marks)
- i) Identify the problems associated with hard water. (3 marks)
- j) State the intention of Environment Health and Safety policy in an organization. (3 marks)

## **SECTION B ANSWER ANY OTHER TWO QUESTIONS**

### **QUESTION TWO (20 MARKS)**

- a) John wants to use an appropriate method to manage solid waste, but he has to characterize the waste first. Help him Describe the sources of solid waste. (10 marks)
- b) Discuss the key areas Environmental Health and Safety policy should cover during implementation. (10 marks)

### **QUESTION THREE (20 MARKS)**

- a) Mabati steel company has had to compensate several workers in the past one year due to work place injuries. Considering the principles of bio mechanics, what would you advice the management. (10 marks)
- b) One of the counties in Kenya has consistently been ranked the lowest in development. Discuss factors that most likely hinder health and development in that county. (10 marks)

### **QUESTION FOUR (20 MARKS)**

- a) Discuss the KEPH specific age cohorts and the health services that are offered at the community. (12 marks)
- b) As an environmentalist describe the parameters of water that affect its quality. (8 marks)

### **QUESTION FIVE (20 MARKS)**

- a) Discuss the measures that have been put in place in Kenya to mitigate technological hazards. (10 marks)
- b) Jane is a community health volunteer who is trying to convince Majani village on the importance of pit latrines. How will she convince the villagers in a SALTY way? (10 marks)