



# MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FOURTH YEAR SPECIAL/SUPPLEMENTARY FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH.

ECD 403: ENVIRONMENT AND COMMUNITY HEALTH

DATE: 24/7/2019

TIME: 8.30-10.30 AM

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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 (30 MARKS) COMPULSORY

### QUESTION ONE

- a) Define the concept of environmental triad and its application in the environment. (2 marks).
- b) Discuss four components of the environment (3 marks)
- c) Restate the procedures of risk assessment (3 marks)
- d) Explain the concepts of cultural environments and its effect on the community (3 marks)
- e) Investigate the role of environmental health practitioners in preventing non-communicable diseases (3 marks)
- f) Discuss the limitations of psychopharmacology. (3 marks)
- g) Identify four persistent organic pollutants (3 marks)
- h) Describe water quality indicators (4 marks)
- i) Examine two procedures to improve air and water quality (3 marks)

- j) Summarize the government policy towards malaria control (3 marks)

**SECTION B: CHOOSE ANY TWO (2) QUESTIONS. EACH QUESTION IS 20 MARKS**

**QUESTION TWO**

- a) As an occupational health officer; apply relevant principles to address the community's health needs (10 marks)
- b) Occupational health officers have to address numerous setbacks in order to improve a community's health. Discuss (10 marks)

**QUESTION THREE**

- a) As the waste manager in Machakos County; describe the challenges of hazardous waste management (10 marks)
- b) Collection and transportation are vital waste management procedures in Machakos County; Discuss (10 marks)

**QUESTION FOUR**

- a) Examine the role of behavioral psychology in addressing environmental challenges in Kenya (10 marks)
- b) Discuss the role of behavior in community health development by considering individual actions about nutrition, exercise and access to healthcare (10 marks)

**QUESTION FIVE**

- a) As a resident of Machakos County, describe the impact of the cultural environment on the health of the residents (10 marks)
- b) Community-based healthcare improves the health of the residents by considering the cultural, economic, social and political setting. Discuss (10 marks)