



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC HEALTH

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DEGREE IN
BACHELOR OF SCIENCE (POPULATION HEALTH)

HEH 100: FOUNDATIONS OF ENVIRONMENTAL HEALTH

DATE: 31/5/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

Illustrate your answer with neat, clear and well labeled diagrams as appropriate

SECTION A (30 Marks) Compulsory

QUESTION ONE

- State three routes of exposure to environmental hazards. For each one give an example of an environmental hazard to which you can get exposed through that route (3 marks)
- Differentiate between exposure and dose (3 marks)
- Describe the various states and types of chemical hazards (3 marks)
- Explain the consequences of water associated diseases (3 marks)
- Explain the functions of NEMA in environmental protection (3 marks)
- Identify the steps involved in carrying out an environmental risk assessment (3 marks)
- Explain ways through which RTAs can be minimized in Kenya (3 marks)
- Distinguish between ionizing and non-ionizing radiation (3 marks)

- i) Disasters can be classified into two main categories. Explain the categories and give an example for each (3 marks)
- j) Explain how ozone layer depletion occurs and name the consequences associated with it (3 marks)

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

QUESTION TWO (20 MARKS)

- a) Explain the health effects of hazards found in the environment (10 marks)
- b) Describe the control measures of hazards found in the environment (10 marks)

QUESTION THREE (20 MARKS)

- a) Water is life but it can also be a source of disease. Justify this statement (10 marks)
- b) Explain the various challenges faced in the control and prevention of water associated diseases (10 marks)

QUESTION FOUR (20 MARKS)

- a) Describe the health effects associated with exposure to radioactive substances (10 marks)
- b) Describe the ways through which indoor air pollution can be reduced/minimized (10 marks)

QUESTION FIVE (20 MARKS)

- a) Describe the benefits of conducting an environmental impact assessment (10 marks)
- b) Explain the environmental outcomes that have been attributed to global warming (10 marks)