

**Paper 1**

**TECHNICAL UNIVERSITY OF MOMBASA**  
**FACULTY OF APPLIED AND HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF**  
**SCIENCE IN COMMUNITY HEALTH**  
**BSCH 015S/YEAR1/ SEMESTER2**

**APH 4103: FOUNDATIONS OF ENVIRONMENTAL HEALTH**

**SEMESTER EXAMINATION**

**SERIES: MAY 2016**

**TIME: 2 HOURS**

*Instructions to Candidates*

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

*This paper consists of two printed pages*

**Question One**

- (a) Define each of the following concepts:
- (i) The environment (2 marks)
  - (ii) Health (2 marks)
  - (iii) Risk (2 marks)
  - (iv) Hazard (2 marks)
- (b) Briefly explain the persistent organic pollutants (POPs) in the Environment.(4 marks)
- (c) Explicitly explain the relationship between environmental Health and Public Health (4 marks)
- (d) Explain the main categories of water related diseases. (4 marks)

- (e) Outline the sources of radioactive materials (3 marks)
- (f) Briefly explain the meaning of the term Environmental Health (3 marks)
- (g) State the importance of Food, Drugs and Chemical Substances Act Cap 254 (4 marks)

### **Question Two**

Global warming not only induces changes in precipitation and wind patterns but also on the human health. Discuss (20 marks)

### **Question Three**

Environmental Health is about hazards and hazard management. Expound on this statement giving relevant examples. (20 marks)

### **Question Four**

The Korokocho Waste dumping site is located to the East of Nairobi and is the main dumping site for most of the solid waste from Nairobi area.

The Nairobi River also passes beside the dumpsite. Some of the waste from the dump site ends into the river extending environmental and health risk to the communities living within the vicinity using the above statement.

- (i) Describe types of wastes associated with this dumping site. (5 marks)
- (ii) Explain Environmental pollutants which can affect the residents around. (5 marks)
- (iii) State the route of exposure of the toxicants. (3 marks)
- (iv) Explain the effects of the dumping site to public health (7 marks)

### **Question Five**

Residents in **Owino-Uhuru** in Mombasa County were neighbouring a company manufacturing which was not known. One morning many children were rushed to a nearby hospital where they were diagnosed with lead poisoning. Discuss the effects of lead in human body (20marks)