



**TECHNICAL UNIVERSITY OF MOMBASA**

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FACULTY OF APPLIED AND HEALTH SCIENCES  
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR:  
DIPLOMA IN ENVIRONMENTAL STUDIES & DIPLOMA IN COMMUNITY  
HEALTH AND HIV MANAGEMENT**

**DES/DCHM 16S/ /YEAR 2/ SEMESTER 1**

**APH 2204: OCCUPATIONAL HEALTH AND SAFETY  
SPECIAL/ SUPPLEMENTARY EXAMINATIONS**

**SERIES: SEPTEMBER 2018**

**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.***

***Mobile phones are NOT allowed in the examination room***

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**QUESTION 1**

**30 Marks**

- a) Differentiate between ionizing and non-ionizing radiation. (3 marks)
- b) i) What is an occupational disease (1 Mark)  
ii) Briefly explain how an occupational disease can be differentiated from any other disease. (2 Marks)
- c) i). Define the term “travel medicine”. (1 Mark)  
ii). Briefly explain the importance of vaccinating individuals before travel. (2 Marks)
- d) Briefly explain the importance of an efficient incident reporting system at a place of work. (2Marks)
- e) Outline the four main objectives of Occupational Health and Safety. (4 Marks)
- f) Define Global burden of disease and hazard. (3 Marks)
- g) i). Explain the meaning of the term “fitness for work”. (1 Marks)  
ii). Outline two benefits of an employer derives from employees who are fit to work. (2 Marks)
- h) Outline five ways in which poor working conditions may cause occupational diseases to workers. (5 Marks)

i) Using an example in each case, distinguish between the following pairs of occupational hazards.

i. Biological hazards and Chemical hazards (2 Marks)

ii. Physical hazards and Ergonomic hazards. (2 Marks)

**Question TWO 15 Marks**

Personal Protective Equipment (PPE) is said to be the last resort in hazard and risk management. Using relevant examples, elaborate on this statement. (15 Marks)

**Question THREE 15 Marks**

Discuss the various techniques used in recognizing health hazards. (15 Marks)

**Question FOUR 15 Marks**

a) Outline three predisposing factors for occurrence of occupational allergic diseases amongst workers in mining industry. (3 Marks)

b) Describe five occupational allergic diseases that affect workers in mining industry and outline two control measures. (12 Marks)

**Question FIVE 15 Marks**

Outline the various means of controlling exposure to ionizing radiation. (15 Marks)