

**W1-2-60-1-6**

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

# **UNIVERSITY EXAMINATIONS 2016/2017**

FIRST YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN PUBLIC HEALTH

**TPH 3115 : ENVIRONMENTAL OCCUPATIONAL AND INDUSTRIAL HEALTH**

**DATE: APRIL 2017 TIME: 3 HOURS**

**INSTRUCTIONS:**

**ANSWER ANY FOUR QUESTIONS**

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**QUESTION ONE**

An entrepreneur is getting up a slaughter house near your shopping center,

1. Identify five (5) possible negative health impacts [5 marks]
2. Propose at least five (5) mitigation measures that should be put in place to address the identified possible negative health impacts [5 marks]

**QUESTION TWO**

1. Describe how a deep-well injection works as an alternative to hazardous waster disposal methods [5 marks]
2. Enumerate three advantages and three disadvantages of using the alternative mentioned in (a) above [6 marks]
3. The world health organization estimates that; 1. About 130-200 millioin children around the world are at risk from lead, and 2. About 15-18 million children in developing countries suffer permanent brain damage because of lead poisoning. With 90% of the lead coming from leaded gasoline. As the senior environmental health manager, in the ministry of health, you have been asked by the minister of health and social welfare to advice a parliamentary committee that is tasked with the reduction fo exposure of Swazi children to lead. Propose here below nine ways that you will tell them as means of reducing lead exposure.

**QUESTION THREE**

1. Describe a modern sanitary landfill [10 marks]
2. Summarize the benefits and drawbacks of burying solid wasters in a sanitary landfill [10 marks]

**QUESTION FOUR**

Outline and explain briefly the steps involved in carrying out environmental

health impact assessments of development projects [20 marks]

**QUESTION FIVE**

1. How does the size of particulates relate to their potential as a health threat? [10 marks]
2. Describe the mechanisms that protects the human respiratory system from the intrusion of particulates [10 marks]

**QUESTION SIX**

1. Describe the elements of a suitable and sufficient work environment risk assessment [5 marks]
2. Outline the main environmental risks associated with the storage of oils and chemicals [5 marks]
3. Explain how the environmental risks associated with storage of oils and chemicals can e minimized [10 marks]