



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**MASTER OF PUBLIC HEALTH**

**AES 5101: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING**

**SPECIAL/ SUPPLEMENTARY EXAMINATIONS**

**SERIES: SEPTEMBER 2018**

**TIME: 3 HOURS**

**DATE:** Pick Date Select Month Pick Year

## **Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of six Question(s). Attempt Choose instruction.question **ONE** and any other **THREE** questions

**Do not write on the question paper.**

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## **QUESTION ONE**

- (a) Differentiate between the following concepts as used in environmental impact assessment
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|--|-----------|
| (i) Screening and Scoping                                      | (2 marks) |
| (ii) Identification and mitigation of impacts                  | (2 marks) |
| (iii) Social impact assessment and strategic impact assessment | (2 marks) |
| (iv) Willingness to pay and willingness to accept              | (2marks)  |
| (v) Use values and non-use values of resources                 | (2marks)  |
- (b) Briefly explain the methods of the SEA in policy enhancement. (3 marks)
- (c) Why public participation has been introduced as a policy instrument for mitigating against failed environmental concerns (3 marks)

- (d) List and explain the evolution of Environmental Impact Assessment (EIA) and Environmental Auditing (EA) in Kenya (5 marks)
- (e) Discuss the three essential goals of Environmental Impact Assessment (EIA) in Kenya and globally. (5 marks)
- (f) What is the information required during the screening stage of Environmental Impact Assessment (EIA) (3 marks)
- (g) List and discuss the four primary tools required for data collection in Environmental Impact Assessment (EIA) (5 marks)

## **QUESTION TWO**

- a) Climate change adaptation and mitigation are essential. How do we consider climate change in SEA/SA; with regards to mitigation and adaptation in Environmental Impact Assessment (EIA) practice? (15 marks)
- b) Urban slums and shanty towns are a result of environmental laws that are weak!
- (i) In the context of Environmental Impact Assessment (EIA) and Environmental Auditing (EA) discuss this in the positive and negative sense (5 marks)
- (ii) In your opinion what is the best way forward? (5 marks)

## **QUESTION THREE**

- (a) There are several eligible actions for PP and RAP activities. All of them influence both the social and environmental well-being of communities. List/describe the five available RAP actions and give an example of each of them regarding social and environmental change (20 marks)
- (b) Using examples explain the total economic values of environmental resources. (10 marks)

#### **QUESTION FOUR**

(a) What are the main aspects of policy differences between developed and developing countries is related to oil gas and nuclear energy assessment? Please specify possible risks and contradictions.  
(20 marks)

(b) Giving examples explain the importance of hedonic pricing in EIA for the expansion of SGR?  
(10marks)

#### **QUESTION FIVE**

(a) What is a market failure of environmental goods and services? Provide examples of market failures from your own country.  
(20 marks)

(b) Using a diagram list and explain the process of Environmental Impact Assessment (EIA) and Environmental Auditing (EA) in Kenya  
(10 marks)

#### **QUESTION SIX**

Discuss the role of NEMA in EIA in Kenya  
(30 marks)