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University Examinations 2024/2025

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTERS IN
PUBLIC HEALTH

MPH 5116: ENVIRONMENTAL HEALTH SCIENCES

DATE: JANUARY 2025

TIME: 3 HOURS

INSTRUCTIONS:

Answer Question one and any other three Questions

QUESTION ONE (40 MARKS)

- a) Briefly discuss the role of environmental health in controlling infectious diseases (5 Marks)
- b) Briefly discuss the factors driving the Emergence and Re-emergence of infectious diseases as in the recent past (5 Marks)
- c) Describe how Environmental Risk Assessment (ERA) is applied in managing risks to ecosystems and human health (7 Marks)
- d) Briefly discuss the role played by environmental health in any society (6marks)
- e) Briefly discuss the adaptation and mitigation strategies being applied to reduce the impacts climate change (7 marks)

QUESTION TWO (10 MARKS)

Environmental determinants significantly shape health outcomes and influence public health strategies for disease prevention and control. Giving examples, examine current environmental determinants that influence individual and population health

QUESTION THREE (10 MARKS)

Discuss the toxicological dynamics of toxic substances such as heavy metals and chemicals when an organism is exposed, giving the best prevention control methods currently available



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

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QUESTION FOUR (10 MARKS)

Examine structural and environmental factors that increase health risks from climate related challenges

QUESTION FIVE (10 MARKS)

Discuss the application of disaster management in environmental protection and infectious disease control

