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UNIVERSITY EXAMINATIONS 2023/2024

THIRD YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN PUBLIC HEALTH

HPP 3312: HEALTH AND ENVIRONMENT

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

a) Define the following terms: (6 Marks)

- Public health and Environmental Health
- Allopatric speciation and Sympatric speciation
- Community and Ecosystem

b) With the aid of a diagram, explain the ecological organization in the planet earth (5 Marks)

c) Explain the health issues related to water contamination a community (5 Marks)

d) Briefly discuss the factors that influence population size and density (4 Marks)

e) Explain reason why the study of particles in the air/atmosphere are important (3 Marks)

f) Giving relevant examples, explain the role greenhouse gases play in climate change and public health (4 Marks)

g) Explain the Importance biochemical cycles in natural ecosystem (3 Marks)



QUESTION TWO (20 MARKS)

- a) Discuss the effects of air pollution to human health (10 Marks)
- b) Briefly, discuss the methods used in the prevention and control of air pollution (10 Marks)

QUESTION THREE (20 MARKS)

Discuss the factors that influence global change of organisms and population over time.
(20 Marks)

QUESTION FOUR (20 MARKS)

Describe the different steps that explain the Nitrogen Cycle process. (20 Marks)



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED