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JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2023/2024

**END OF SEMESTER II EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE IN PUBLIC HEALTH**

PPH 3106: ADVANCED OCCUPATIONAL AND ENVIRONMENTAL HEALTH

DATE: DECEMBER 2023

TIME: 3 HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS

1. A young mother working and housed in a lead battery smelting workplace observes that her son is regularly ill presenting with high fever, delayed milestones, frequent seizures among other signs and symptoms. Livestock in the neighborhood consuming water contaminated with factory effluents are reported to be sickly and spontaneous death. Using Bradford Hill criteria of identification of occupational diseases, explain how you can show that these outcomes are likely to be associated with occupational disease.
(25 marks)
2. In Occupational settings, exposure occurs to a large number of xenobiotics which may interact with each other. Explain various expected outcomes resulting from these interactions.
(25 marks)
3. Giving suitable examples, explain how Soil influences human Health
(25 marks)
4. With reference to five of the principles of sustainable development, explain how each can be used to justify the citizens right for clean air in Kenya.
(25 marks)
5. Discuss the sources of the gasses responsible for climate change and the strategies in place to address the mitigation of this challenge.
(25 marks)
6. With reference to the National Food Safety Policy (2021) in Kenya, explore the Emerging and Re-emerging Food Safety Issues and how Food Safety is financed.
(25 marks)



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