



WI-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY  
UNIVERSITY EXAMINATIONS 2024/2025  
EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

**PPH 3104: Communicable and Non Communicable Diseases – Semester (Main) paper**

**DATE: DECEMBER 2024**

**TIME: 2 HOURS**

- 1) a) You are a Public Health Specialist in Kakuma Refugee Camp and surveillance data reveal possible cholera outbreak. Discuss the keys steps in cholera outbreak Investigation (15marks).  
b) Giving relevant examples, illustrate the role of descriptive and analytical epidemiology in Cholera outbreak investigation (10marks).
- 2) a) Prevention and control of non-communicable diseases, requires a multi-sectoral approach: Elaborate (15mks).  
b) Critically review the key drivers of non-communicable diseases (10marks).
- 3) Control and prevention of communicable diseases are guided by key principles. Discuss (25 marks).
- 4) Discuss the role of chain of infection in disease prevention and control (25 marks).
- 5) a) Define disease surveillance and describe surveillance steps you would use to evaluate surveillance systems. Provide relevant examples (15marks).  
b) Review key sources for data that can be used for public health surveillance in developing countries (10 marks)
6. a) Review the role of travel medicine in communicable diseases, prevention and management, giving relevant examples. (10 marks)  
b) Discuss how travel medicine contributes to the attainment of Universal Health Coverage (15 marks).