Instructions:

1. Answer any four questions.

2. Candidates are advised not to write on the question paper

3. Candidates must hand in their answer booklets to the invigilator while in the examination room
Q1. (a) Discuss the challenges encountered by health workers in the typical routine disease surveillance and reporting system in Kenya. (8 marks)
   (b) Discuss the ways to improve the use of information in making decisions in disease surveillance systems in Kenya. (7 marks)

Q2. You are the epidemiologist in charge of a county health Intervention programme in Kisii. An acute outbreak of an infectious disease has been reported in the region. Describe how you would investigate and control the outbreak. (15 marks)

Q3. (a) Discuss the necessity of Disease surveillance systems in developing countries. (8 marks)
   (b) By aid of relevant examples describe the different types of epidemics that are common in human populations. (7 marks)

Q4. (a) Discuss the advantages and limitations of the following sources of health data:
   (i) Registries (4 marks)
   (ii) Hospital records (4 marks)
   (b) Discuss the measures that may be taken to improve data collection in an Integrated disease surveillance system. (7 marks)

Q5. (a) Wound associated infections have become a common nosocomial infection in children wards in Kenya. Discuss the measures that may be taken to control such nosocomial infections. (8 marks)
   (b) Discuss the ways in which a disease surveillance indicator may be operationalized. (7 marks)

Q6. (a) Discuss contributory factors in the emergence and re-emergence of multi-drug resistant tuberculosis. (9 marks)
   (b) Discuss the impediments to good data quality in the current disease surveillance system in Kenya. (6 marks)