



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR CERTIFICATE IN COMMUNITY HEALTH AND
DEVELOPMENT

SPECIAL EXAMINATIONS NOV. 2020

COURSE CODE: HCD 1125

COURSE TITLE: Epidemiology & Prevention of Common Diseases

EXAM VENUE:

DATE:

EXAM SESSION:

TIME: 1 ½ HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 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.**

SECTION A 30 MARKS

1. Define the following terms as used in epidemiology 3marks
 - i. Epidemic
 - ii. Incidence
 - iii. Reservoir
2. State three reasons why epidemics occur 3marks
3. State three uses of epidemiology 3marks
4. Define zoonosis and give two examples of zoonotic infections 3marks
5. Differentiate between communicable and non communicable diseases giving one example of each 3marks
6. Define the term natural history of disease 3marks
7. State three disease characteristics that are looked at in descriptive epidemiology 3marks
8. State three levels of disease prevention 3marks
9. State the meaning of the following terms as used in epidemiology 3marks
 - i. Determinants
 - ii. Distribution
 - iii. Health related states
10. In 2017, the total number of malaria cases in a population of 10,000 people was 50. If in 2016, only 20 cases of malaria were reported, calculate: 3marks
 - i. The incidence of malaria in 2017
 - ii. The prevalence of malaria in 2017

SECTION B 30 MARKS

1. Explain the chain of infection 15marks
2. Discuss the steps of an outbreak investigation 15marks
3. Discuss the public health importance of learning the mode of disease transmission 15marks
4. Giving examples, explain the epidemiological triad 15marks.