



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE BACHELOR IN COMMUNITY HEALTH
AND DEVELOPMENT AND PUBLIC HEALTH**

2nd & 4th YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR

NAIROBI LERNING CENTRE

UNIT CODE: HCD 3221 EXAM

UNIT TITLE: PRINCIPLES IN EPIDEMIOLOGY

EXAM VENUE: 9TH FLOOR

DATE: 03/ 12/2018

TIME: 2HOURS

EXAM SESSION: 9am – 11am

INSTRUCTIONS

- 1. Answer question ONE is (compulsory) and ANY other TWO questions.**
- 2. Candidates are advised not write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A

a) Define the terms:

i) Communicable disease/Infectious disease (2 marks)

ii) Molecular Epidemiology (2 marks)

b) Differentiate between pandemic and epidemic (3 marks)

c) Identify the sources for health information (data) (5 marks)

d) Describe the difference between a rate and ratio (2 marks)

e) Define epidemiology and discuss the major components of the definition (5 marks)

f) Discuss the major variables in descriptive epidemiology (5 marks)

g) Differentiate between modifiable risk factors and non-modifiable risk factors in non-communicable diseases (NCDs) giving examples (6 marks)

SECTION B (40 MARKS)

ANSWER TWO QUESTIONS ONLY

1. Discuss in details the three methods of controlling infectious diseases (20 marks)

2. Discuss the methods of data collection (20 marks)

3. Describe different modes of disease transmission (20 marks)

4. Describe cross sectional study including its advantages (20 marks)