

MACHAKOS UNIVERSITY

University Examinations 2017/2018 SCHOOL OF HEALTH SCIENCES DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN IN POPULATION HEALTH HEH 200: INTRODUCTION OF EPIDEMIOLOGY

DATE:20/12/2017

TIME: 2.00-4.00 PM

INSTRUCTIONS

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

SECTION A (30 MARKS) COMPULSORY

QUESTION ONE

| a) | Discuss cohort studies and how they are implemented | | (2 marks) |
|----|---|---|-----------|
| b) | Desc | Describe the term Cross-sectional study as used in Epidemiology | |
| c) | Outli | (4 marks) | |
| d) | Distinguish between the following terms, | | |
| | i. | Prevalence and incidence as used in epidemiology | (2 marks) |
| | ii. | Case Control and case studies | (2 marks) |
| | iii. | Specificity and Sensitivity | (2 marks) |
| e) | Expl | ain four(4) preventive and control measures of Schistosomiasis | (4 marks) |

| f) | Identify three(3) components of descriptive epidemiology | (3 marks) |
|----|---|-----------|
| g) | Explain the influence of climatic changes in influx of diseases | (3 marks) |

- h) Describe three (3) major factors that affects prevalence rate (3 marks)
- i) Using relevant examples explain the term screening as applied in epidemiology

(3 marks)

QUESTION TWO (20MARKS)

a) Epidemiology deals with interventions towards control of diseases or conditions of diseases. Discuss primary interventions which can be used to address health problems in a community (10 marks)
b) Discuss the role of epidemiology in Policy formulation (10 marks)

QUESTION THREE (20MARKS)

| a) | Discuss the historical epidemiological perspectives and their contributions to the control | | | |
|------------|--|------------|--|--|
| | and prevention of diseases | (10 marks) | | |
| b) | Describe the application of the epidemiologic triad in disease control and prevention | | | |

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QUESTION FOUR (20 MARKS)

- a) Discuss one of the disease determinant in details as applied in Epidemiology (5 marks)
- b) Discuss the natural history of a disease (10 marks)
- c) Explain the prognosis of Cholera as a major health problem in the society today and its causal factors which may precipitate its causation (5 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the applicable factors of disease occurrences in a community (10 marks)
- b) Discuss risk factors which contributes to transmission of hepatitis B and how prevention and control can be achieved (10 marks)