



MACHAKOS UNIVERSITY

University Examinations 2017/2018

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE
IN IN POPULATION HEALTH

PPH 316 : POPULATION HEALTH RISK ASSESSMENTS

DATE:6/12/2017

TIME: 11.00-1.00 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) Explain the meaning of the following terms as used in population health assessment
 - i) Risk
 - ii) Hazard
 - iii) Exposure (3 marks)
- b) Giving examples of each state ways in which risks can be expressed (3 marks)
- c) State three (3) factors that must be known while estimating a risk (3 marks)
- d) Explain three (3) advantages of prospective studies (3 marks)
- e) With aid of illustration explain retrospective studies (4 marks)
- f) State four (4) things on which exposure will depend on (4 marks)
- g) Explain hazard evaluation step in risk assessment (4 marks)
- h) Explain three (3) reasons to why exposure assessment is performed (3 marks)

- i) Explain two (2) approaches used while assessing total exposure (3 marks)

SECTION B: CHOOSE ANY TWO (2) QUESTIONS. EACH QUESTION IS 20 MARKS

QUESTION TWO

- a) You are population health officer in county A. One of your duties is to carry out population health risk assessment.
- i. Using examples describe five classification of population health risks (10 marks)
 - ii. Explain how you will carry out risk management in this area of your responsibilities citing specific areas that you will evaluate (10 marks)

QUESTION THREE

In order to carry out risk assessment one must observe general principles

- a) Discuss five (5) general principles observed during risk assessment (10 marks)
- b) Explain five control measures which can be considered while controlling a risk among population (10 marks)

QUESTION FOUR

Dose –response assessment is an important step in risk assessment.

- a) Explain five importance of performing dose-response assessment (8 marks)
- b) Describe dose-response assessment process (12 marks)

QUESTION FIVE

- a) Using examples describe five classification of population health risks (10 marks)
- b) Discuss five groups of people at risk of developing population health problems (10 marks)