



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR SPECIAL/SUPPLEMENTARY FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH.

PPH 316: POPULATION HEALTH RISK ASSESSMENTS

DATE: 25/9/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

SECTION A (COMPULSORY)

QUESTION ONE (30 MARKS)

- a) Define the following terms (3 marks)
 - i. Risk
 - ii. Hazard
 - iii. Health risk Assessment
- b) Explain the populations vulnerable to health risk (3 marks)
- c) The best test species for health risk assessment for humans are humans. Justify (3 marks)
- d) Outline three (3) qualitative risk assessment methods (3 marks)
- e) Highlight three (3) Factors that influence the likelihood of a health risk (3 marks)
- f) Identify three (3) sources of information for population health risk assessment (3 marks)
- g) Highlight the factors that can influence health risk acceptability (3marks)
- h) Explain the limitation of using population health risk assessment data in everyday life (3 marks)
- i) Identify the health effect from Slips and Falls (3 marks)

- j) Identify three (3) methods used in health risk treatment (3 marks)

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

QUESTION TWO (20 MARKS)

- a) Describe various ways people can be exposed to a health hazard (10 marks)
b) Discuss important assumptions when evaluating a health risk (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss five principles applied in the management of a health risk (10 marks)
b) Explain the factors to consider in selection of a study to review for health hazard identification (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the how following can be sources of health hazard (10 marks)
i. Breast milk
ii. Fish stew
iii. Pesticides on Sukuma wiki leaves
iv. Posho mill
v. radio
b) Describe five steps used in prioritizing a health risk (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the causes of uncertainty in health risk assessment (10 marks)
b) explain models used in health risk assessment (10 marks)