

MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN POPULATION HEALTH.

PPH 316: POPULATION HEALTH RISK ASSESSMENTS

DATE: 18/4/2019 TIME: 11:00 -1:00 PM

INSTRUCTIONS:

This paper consists of two sections A and B SECTION A: (COMPULSORY)

- This section has one question
- The question is compulsory
- The question is 30 marks

a)	Define the following terms i) Health risk Variability ii) Health risk Tolerability iii) Health risk Assessment	(3 marks)	
b)	iii) Health risk Assessment Explain the populations vulnerable to health risk	(2 mortes)	
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 the health effect of physical hazards	(3 marks)	
e)	Highlight three (3) advantages of qualitative data in health risk assessment.	(3 marks)	
f)	Identify six (6) sources of information for population health risk assessment.	(3 marks)	
g)	Highlight the factors that can influence health risk acceptability		
		(3 marks)	
h)	Explain the limitation of using population health risk assessment data in everyo	in the limitation of using population health risk assessment data in everyday life	
		(3 marks)	
i)	Briefly describe routes of exposure to a health risk	(3 marks)	

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

SECTION B:

- This Section Has Four (4) Questions
- Answer Any Two (2) Questions
- Each Question is 20 Marks)

QUESTION TWO (20 MARKS)

- a) Explain the advantages of using computer modeling in assessing hearing loss and stress caused loud noise from industrial machines. (10 marks)
- b) Discuss important assumptions when evaluating a health risk. (10 marks)

QUESTION THREE (20 MARKS)

a) Fill in the missing gap

(10 marks)

Health risk	Public health intervention
i) Mother to child	
HIV/AIDS transmission	
ii) Polio	
iii)	Vitamin D supplementation
iv)	Taxation of tobacco products
v) Gonorrhea and syphilis	
vi)	Iodized salt
vii) Tooth decay	
ii) Obesity	
viii)	BCG-Vaccination
ix)	Use of condoms

b) Discuss five principles applied in the management of a health risk (10 marks)

QUESTION FOUR (20 MARKS)

- a) Mr. Kamau is a health expert in health risk assessments based at Machakos County. Explain five (5) cases in the County where his expertise may be sought (10 marks)
- b) Describe five steps used in prioritizing a health risks (10 marks)

QUESTION FIVE (20 MARKS)

Ruth a health scientist based in Machakos County could not concluded possibility of diarrhea cases or probabilities of developing diarrhea after drinking rain untreated water among Machakos town residents.

- a) Discuss the reasons for her dilemma in the above case. (10 marks)
- b) Explain models she can use in assessing the health risk above. (10 marks)