

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF MASTER OF PUBLIC HEALTH

(CITY CAMPUS)

PHE 823: EPIDEMIOLOGIC DESIGNS

Date: 5th December, 2015

Time: 9.00 - 12.00 noon

INSTRUCTIONS:

PHE: 823: EPIDEMIOLOGIC DESIGNS

SECTION A: SHORT ANSWER QUESTIONS (SAQs) (60 Minutes)

INSTRUCTIONS:

- Answer All the FOUR (4) Questions in this section
- 1. Highlight FIVE (5) uses of life tables in Epidemiologic studies (5marks)
- List FIVE (5) factors that determine the choice of an epidemiologic study design (5marks)
- List the SEVEN (7) key sections considered during the process of critical appraisal of published papers (5marks)
- Below is information from a cohort study to determine the outcome of HIV/AIDs in most at risk population vs the non-exposed population

-Exposed population505

- -Non-exposed population1745
- -Exposed and developed disease315
- -Not exposed and developed disease35

Questions:

- Relative risk? (1marks)
- Attributable risk? (2marks)
- Population attributable risk (2marks)

SECTION B: LONG ESSAY QUESTIONS (LEQs) (120 Minutes)

INSTRUCTIONS:

- 1. There are FOUR (4) Questions in this Section
- 2. Answer Question 1 COMPULSORY and Any other two (2) question

LEQ 1.

As a Public health consultant, you have been appointed by the Ministry Of Health to lead a team to carry out a quantitative research on a disease of public health interest, Discus any FIVE (5) quantitative methods in Epidemiologic study designs giving appropriate examples in each case that you would use in this investigation (20marks)

LEQ 2.

Describe important issues you would consider when planning for a community trial. (10marks)

LEQ 3.

Discus 6 approaches used in controlling for confounders in epidemiological studies (10Marks)

LEQ 4.

The table below shows data outcome of a disease survey. Using this table, tabulate:

Disease						
		Cases		Cases	1	
Age group	Total males	Males	Deaths	Total Females	Females	Deaths
0-4	20,000	2,400	400	24,000	3,200	600
5-14	15,000	2,200	150	19,000	2,600	360
15-44	12,000	800	120	14,800	1,200	80
45-64	8,000	700	80	9,200	480	80
65+	2,000	200	40	3,600	340	60

- a. Population attack rate? (1marks)
- b. Gender specific attack rate? (1marks)
- c. Crude mortality rate (1marks)
- d. Case fatality in males(2marks)
- e. Case fatality in females (2marks)
- f. Population age specific attack rates? (2marks)
- g. Comment on malaria incidences focusing on age group and gender (1marks)