Using malaria as an example outline the major points in a communicable disease

crocess and the measures to be taken at each point to control malaria. (5 marks)

Cohort and case-control study designs are often used in epidemiological studies. Use

example to show the difference between the two study designs. In addition, give one

case control designs are often used in epidemiological studies. Use

can antage and one disadvantage of a cohort study. (5 marks)

Compare a ventilated improved (VIP) latrine with an ordinary pit (OP) latrine. (5

- Using the 'Pathway to impact Approach', outline the 5 steps that precede the election of the most appropriate key monitoring indicators. (5 marks)
- Giving examples of each, differentiate between 'rate' and 'ratio' measures as used in temography. (5 marks)
- 6. Briefly describe the FIVE types of learners/learning styles to consider when selecting reaching methods for a health education session. (5 marks)
- 7. Identify five challenges that affect care-seeking by youth for reproductive health ervices in Kenya. (5 marks)
- With relevant examples, briefly discuss any two principles of primary care. (5 marks)
- 9. Define the economic concepts of consumer and producer surplus. Give an application cample in the provision of health care. (5 marks)
- What are the three key strategies for reducing maternal deaths and suffering according to the experience from successful maternal health programmes? (5 marks)

 (1) meeting must need for FP services (4 20°/c or more)

 (2) chilled birth attendance 3 functioning rejecul systems for all women in labor

 (3) Timoly Euco for women who drip complications

SECTION II: LAQs - Attempt both questions

1. A random sample of medical students was selected for a hypertension study and the following observations made or the fasting blood glucose levels:

70			, ·			
8.5	6.2	5.6 🖎	7.8	7:6 4	8.6.	18.2
73.11	578 1	6.8	8:32	9.5	8.70	7.30
1.1 7 8.4	9.8/	8.5	5.8 y	6.4	6.8	7.1 %

(a) What is the median (2 marks)

(b) Calculate the mean, var ance and standard deviation (6 marks)

(c) Calculate the coefficient of variation (2 marks)

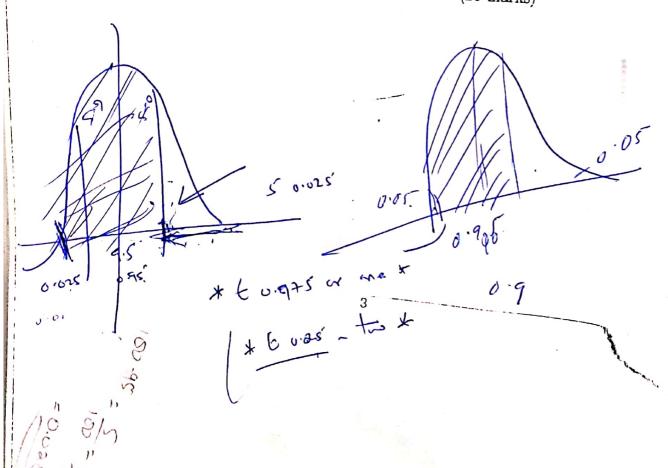
(d) Calculate the standard error of the mean (3 marks)

(e) Construct a 95% confidence interval for the mean fasting blood glucose level in the population from which the same le was drawn (7 marks)

Note:

$$t_{0.95}(23) = 1.7139$$
 $t_{0.975}(23) = 2.0687$ $t_{0.95}(24) = 1.7109$ $t_{0.975}(24) = 2.0639$

development for current and future generations. Discuss (20 marks)



Sima

Miversity of nairobi

School of Public Health

LEVEL Y BACHELOR OF MEDICINE AND BACHELOR OF SURGERY COMMUNITY HEALTH CONTINUOS ASSESSMENT TEST (CAT)

DATE: APRIL 20, 2017

TIME: 2.00 PM - 4.00 PM

4-20

INSTRUCTIONS

Read and follow the instructions. There are $\underline{\text{TWO}}$ sections to this paper.

I. Section I: SHORT ANSWER QUESTIONS.

- i. There are Eleven (11) Questions in this section each carrying a maximum of 5 Marks. **Answer ANY TEN [10].**
- ii. Marks allocated to each question is indicated.

II. <u>Section II:</u> LONG ANSWER QUESTIONS.

- i. There are Three (3) Questions in this section, each carrying a maximum of 20 Marks. **Answer ANY TWO [2].**
- ii. Marks allocated to each question is indicated.

The total time allowed for the paper is **2 hours**.

Write your **student registration number** on each answer sheet used.

ANSWER EACH QUESTIC V ON A SEPARATE SHEET OF PAPER.

Section I: SHORT ANSWER QUESTIONS - Answer ANY TEN (10) Questions from this Section

The section
Epidemiology 1. In a case-control study looking and the second study looking and the second
1. In a case-control study looking at the relationship between having freckles and the risk of melanoma, 136 of 183 cases and 61 of 183 controls had freckles.
(a) If you have freckles how much more likely are you to develop 13 to 12 2 d
melanoma than someone who does not have freckles? Calculate and interpret the appropriate measure [3 marks]
(b) How much of melanoma could be prevented if freckles were removable [2 marks]
Occupational Health 9- S 9-
2. (a) State three methods of preventing fire outbreak in public institution or an industry? [3 marks] Pacsive - Parps. (b) Name two key stakeholders who, in case of a disaster such as fire or large scale spill of a chemical, are the MOST beneficiaries of Material Safety Data Sheet (MSDS) [2 marks].
Demography 3. (a) Name the source of data necessary in improving the overall birth registration in any county in Kenya? [1 mark]
(b) Highlight four measures you can provide to improve birth registration
- Polerty Parnoad conditions - lack of transportation
4. What are the five major reasons for persistently high rates of unskilled
birth attendance in Kenya? [5 marks]. PHC Signature of the state of
5. Using your experience and examples during community diagnosis:
(a) List three key achievements of Community Health Strategy [3 marks]
(c-c-percution- page 2 of 4 Est of village comille 11
averliability of funds last could although Community porter pure
MOTHER Decr. rede is to

(b) Using examples briefly discuss one of these achievements [2 marks]

Health Education

6. Discuss at ANY TWO benefits of health education to a hospital [2.5]

HSM

7. Briefly describe, with use of an example, a primary and a secondary use of a health record [5 marks].

CDC

8. Outline the major points in a communicable disease process and the points at which measures can be taken [5 marks].

Health Economics

 Briefly elaborate <u>ANY FIVE (5) KEY</u> policies recommended by the World Bank to overcome the existing weakness of health systems in developing countries [5] marks].

Medjeál Sociology

19. Select a cultural practice and describe its implications on health [5 marks].

Nutrition

11. Briefly outline <u>Five (5)</u> Sources of Error that may contribute to poor quality anthropometry data collection in community health diagnosis [5 marks].

Section II: LONG ANSWER QUESTIONS - Answer ANY TWO (2) Questions from this section

<u>Biostatistics</u>

- 1. In an anthropometric study to assess the nutritional status of school-going children in a rural community, the average weight of children at 10-years of age was found to be 25.7kg with a standard deviation of 4.5. Accept these values as population parameters and that weight is normally distributed.
 - What is the probability that a given 10-year old child in the (a) community will have a weight greater than 24kg? [6 marks]
 - (b) What is the probability that the average weight of 48 10-year olds will lie between 25 and 27kg? [7 marks]
 - (c) What minimum weight do 10 year-olds in the community need to have to be in the top 10% of the children by we ght? [7 marks]

Use the following information to answer the cuestion:

 $Z_{0.10} = 1.285$; $Z_{0.3520} = 0.38;$ $Z_{0.0005} = 3.29;$ $Z_{0.1401} = 1.08;$ $Z_{0.025} = 1.96; Z_{0.05} = 1.645; Z_{0.02275} = 2.00$

Environmental Health

2. Explain global warming process and its health effects on human beings [20 Marks]. CFCS - HCCI O3-DUZ Couring light to pass in Acid toin, globa warming Tpcilles but not hook greenhar

NCD/CDC 3. Using the concept of commonality of risk factors, justify the targeting of the four common risk factors of Non Communicable diseases for prevention in public health - [20 marks].

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UNIVERSITY OF NAIROBI

School of Public Health

LEVEL V BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

CONTINUOS ASSESSMENT TEST (CAT)

DATE: November 17, 2016

TIME: 2.00 PM - 4.00 PM

2016

INSTRUCTIONS

Read and follow the instructions. There are <u>TWO</u> sections to this paper.

- I. <u>Section I: SHORT ANSWER QUESTIONS.</u>
 - i. There are Eleven (11) Questions in this Section. Answer Any Ten [10] questions.
 - ii. Each Question Carries 5 Marks, Unless Indicated Otherwise.
- II. Section II: LONG ANSWER QUESTIONS.
 - i. There are Three (3) Questions in this Section. Answer Any Two [2] questions.
 - ii. Each Question Carries 20 Marks.

The total time allowed for this paper is 2 hours.

Write your student registration number on each answer page.

ANSWER EACH QUESTION ON A SEPARATE SHEET OF PAPER.

cn 1: SHORT ANSWER-QUESTIONS - Answer ANY XX Questions from this

a) Epidemiology is applied in many areas. Give any two (2) wes of pidemiology in your future profession. (2 marks)

b) A newly developed screening test for a certain disease with evaluated and the results were as presented in the table below.

		With	Without	Total
	Disease		Disease	
TEST RESULTS	Positive	350 🛓	1900 1	2250
	['Negative	150, c	7600 &	7750
	Total	500-	9500	10000

7 on

ৰ্ভোculate and interpret the following for the test: (3 marks, i: mark each)

i. Positive predictive value. = 360/2000.
ii. Specificity. 760% (500% 400)

iii. Sensitivity. 35%

State three methods of preventing fire outbreak in an in-titution or industry.

OCCHY

- (b) Name TWO key stakeholders who in case of a disaster such as fire, spill of a Targe scale of chemical are the most beneficiaries of material safety data (MSDS). Elaborate on how they benefit from MSDS.
- (a) Name TWO health care related occupational diseases of which after accidental exposure a post exposure prophylaxis is immediately administered. Occid
- (b) List two types of psychosocial hazards and one health cor dition or disease associated with each hazard.
- You have been invited to attend a meeting aimed at improving vital statistics. for Kenya. Outline any FIVE suggestions that can improve the civil registration and vital statistics system for Kenya.

- itreng then partnerships southy organisa will Right rather with Ther healt primition Es pelic Train (this 3 (Herr)

i got of word weare in a mercia confidence in system of which startes Urbanisation may contribute to poor health among urban residents. Explain.

Urbanisation may contribute to poor health among urban residents. Explain.

Differentiate price elasticity of demand, cross price elasticity of demand and income elasticity of demand.

The central strategy in efforts to reduce maternal deaths is timely emergency obstetric care for women who develop complications. Describe the standards for Basic Emergency Obstetric Care.

Differentiate price elasticity of demand.

10. Define a communicable disease and outline the major points at which a communicable d

tion II: LONG ANSWER QUESTIONS - Answer Any TWO Questions from this tion.

A random sample of medical students was selected for a hypertension study and the following observations were made on their diastol:: blood pressures:

(2 marks)

b) Calculate the median? 766 44.44 (3.66)

Calculate the mean, variance and standard deviation

Calculate the coefficient of variation (6 marks) (2 marks)

(3 marks) d) Calculate the standard error of the mean

c) Construct a 95% confidence interval for the mean diastolic blood pressure in the Population from which the sample was drawn

(7 marks) デナス(17. Exstemry man $t_{.975}(35) = 2.0301$ / Note: 1.95 (35) = 1.6896 Man + CT

Using relevant examples, explain the linkage of any three health systems is the linkage of any three health systems is the linkage of any three health systems.

Marks]. - Essential supplies - Heelth watter a.

Using examples, discuss Any Five (5) high impact nutrition interventions mplemented within the health sector in Kenya [20 Marks]

Margne 972 x 1m -Mover improved worth. Ethicenyl Cocod nik potection f(x-x)2 ユーダー 172

Midpointa 730,26, - 11. 393

20 1 10 Ef (2-3) = 1555,56. £ + 36

$$\overline{x}_{0} = \underbrace{x_{0}^{2}x}_{2} = 2758 = 76.61.$$

$$\overline{x_{0}^{2}}_{1} = \underbrace{x_{0}^{2}x}_{2} = 2758 = 76.61.$$
Page 4 of 4
$$\overline{x_{0}^{2}}_{1} = \underbrace{x_{0}^{2}x}_{1} = \underbrace{x_{0$$

Variable 44, 44,