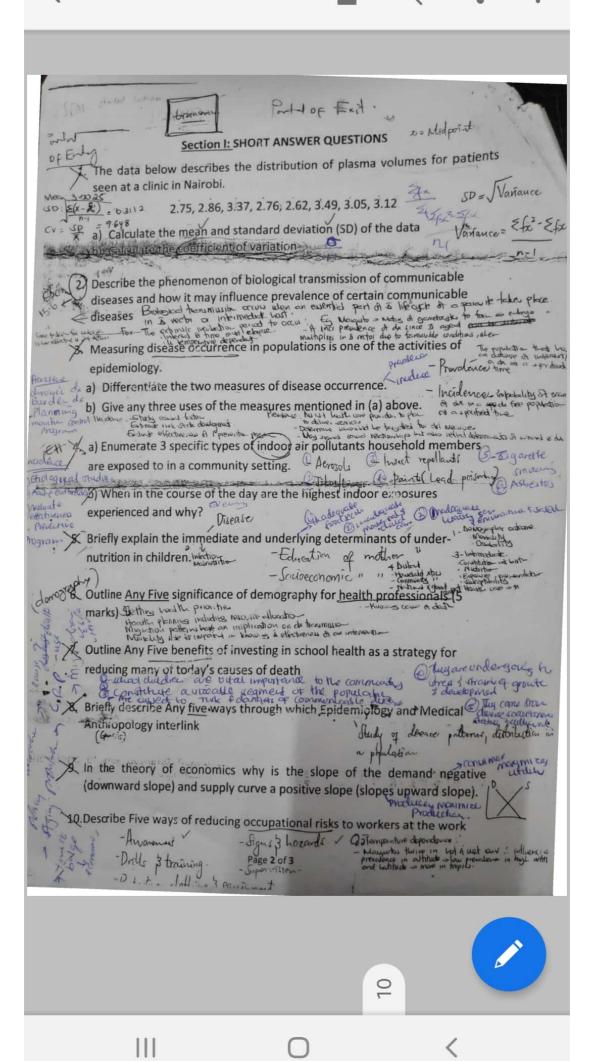
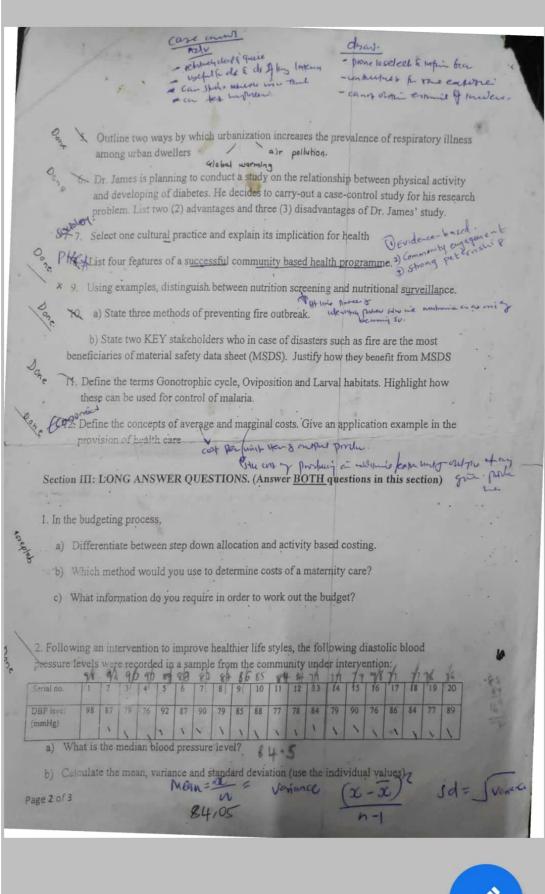


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COMMUNITY HEALTH 9/2/2014 1. Differentiate between measures of prevalence and measures of incidence in epidemiology. (2 marks) 2. Write down the balancing equation of demographic measures.(2 marks) 3. Expound on the EMIC and ETIC perspectives in social anthropology. (3 marks) 4. Health education focuses on 3 main components. Outline them. (6 marks) 1. Heatth promotion 2. Presention of diseases 3. Rehabilitation 5. Draw the following curves: Unity Elasticity (1 mark) Perfect Elasticity (1 mark) Supply & Demand Curve, with mention of the significance of the equilibrium point. (3







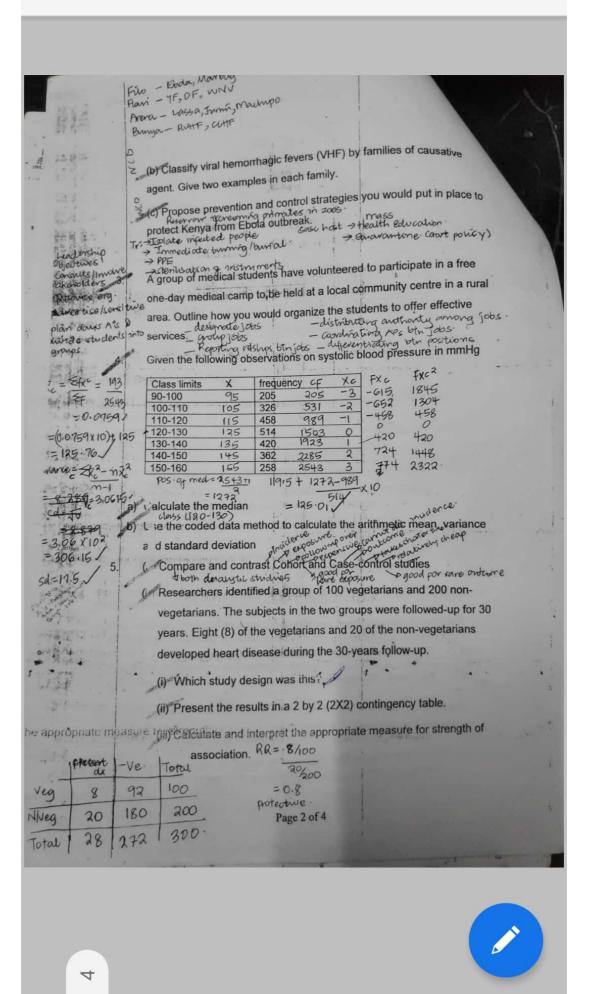


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21	RMA	School of Public Healt		
	-	CONTINUOS ASSESSMENT TE		0000
	DATE: Thursday 13, 2015		TIME: 2.00PM - 5.1	<u>DOPM</u>
	INSTRUCTIONS			1.00
		tions. There are <u>Three</u> section	ons to this paper.	
	Section I: SHORT ANSWER C			
		oulsory, Each question carries	1	24. 为案
	Section II: SHORT ANSWER	QUESTIONS. Answer any oth	er eight [8] questions.	
	Each question carries 10 ma	rks.	. 14 -	. 1
	Section III: LONG ANSWER (QUESTIONS.		200
	Answer Two Questions. Each	Question Carries 20 Marks.		1
	The total time allowed for this paper is 3 hours.			
	Write your student registration number on each answer page.			
	ANSWER EACH QUESTION ON A SEPARATE SHEET OF PAPER.			
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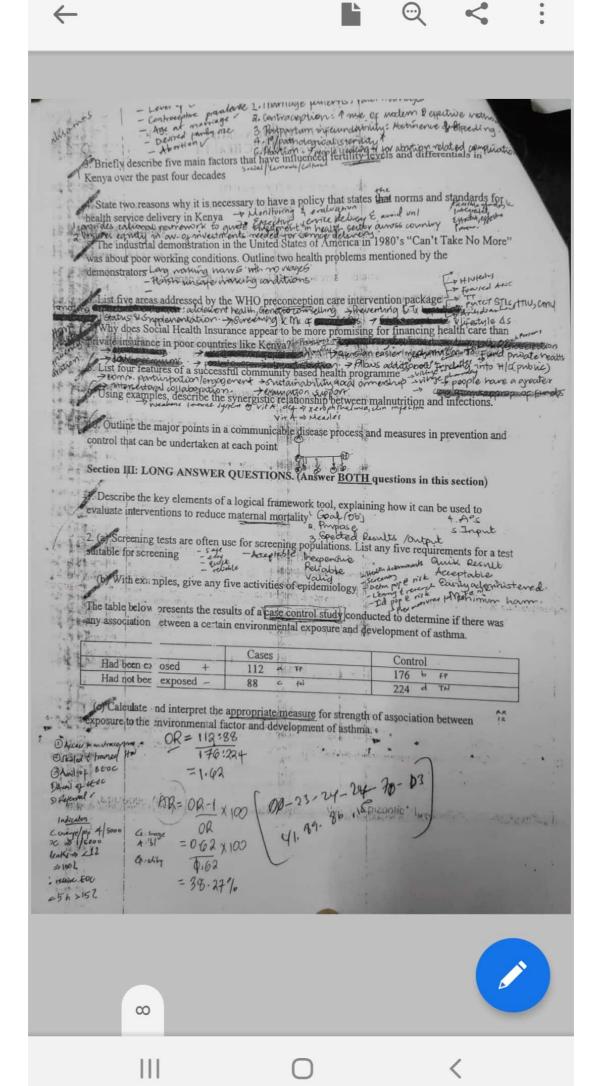
List four features of a successful community based health programme With examples, compare the following demographic concepts

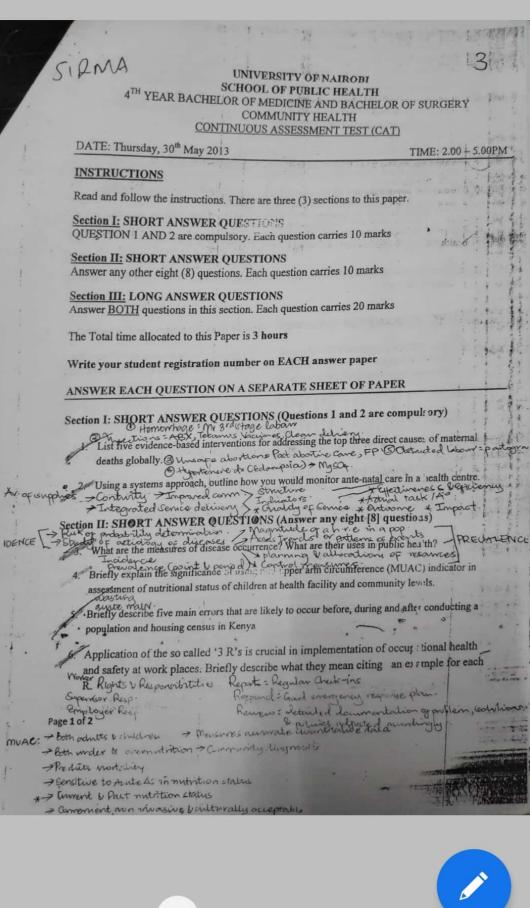
The fol The following are distances from the household to the nearest public health facility as recorded in a recent community diagnosis: HH No. Distance from facility What is the median distance $\frac{2}{p}$ b) Calculate the mean, variance and standard deviation (use the individual values) Calculate the standard error of the mean $\frac{3D}{4\pi}$ SEM = cd/ $\frac{1}{4\pi}$ Construct a 99% confidence interval for the mean distance from household to health facility in the population from which this random sample was drawn. X ± tied X SEM: Note: 1,995 (15) = 2.9467 Dr. X conducted a study to determine if there was any association between exposure to radiation in uterus and development of tumors. Of the 2215 children who had been exposed to radiation, 59 developed tumors, while of the 1395 children who hadn't been exposed, 13 developed tumors. What study design was this?

Description Chart Study Prospective Chart Study Present the above results using a 2 by 2 contingency table. c) Compare the risks of developing tumors between the two groups of children.

d) How many times more is the risk of tumors if a child is exposed to radiation compared to unexposed? $RL = \frac{I_e}{E_o}$ $RL = 2.859 \times 10^{-3}$ How in sch of tumors are attributable to exposure to radiation?

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Section III: LONG ANSWER QUESTIONS (Answer Any TWO Questions in this section)

Discuss how the key health systems building blocks can influence health (care delivery to Kenya's population. — Health financing — Leadership 3 600

a) Differentiate between "Experimental studies" and "Observational studies" 4 (4 marks).

b) Dr. Evans conducted a study in order to determine the relationship between exposure to pesticides and development of of skin diseases. He identified 100 subjects who were exposed to pesticides and 100 subjects who were not exposed to pesticides. The subjects in the two groups were followed-up for a specified period of time. At the end of the follow-up period, 50 of the exposed subjects and 30 of the non-exposed subjects were found to have developed skin diseases.

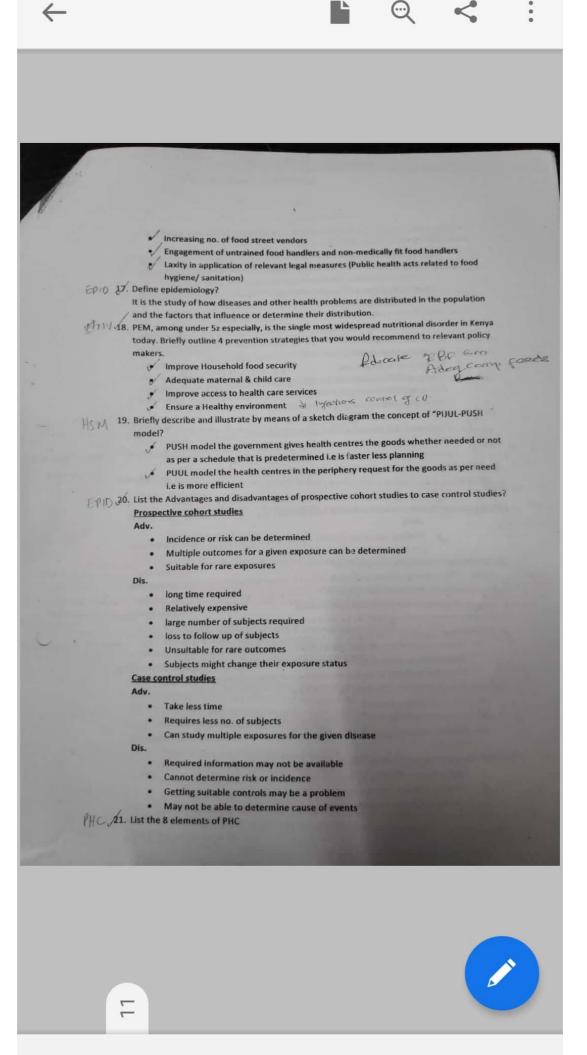
i. Which study design was this? Give reason for your choice (2 marks)

- ii. Give two advantages and two disadvantages of the above study (4 marks)
- iii. Compute and compare the rate of developing skin diseases in the two groups. (4 marks).
- iv. How much more at risk of developing skin disease are the exposed subjects as compared to non-exposed subjects? (3 marks)
- v. What rate of skin diseases among the exposed subjects would have been prevented if none of them had been exposed to pesticides? (3 marks)
- EH 3 At the community you are conducting community diagnosis, there are various types of water sources accessible by the community members for their domestic uses:
 - a) How would you proceed to establish the types of water sources?
 - b) Which of these would you classify as high risk sources and why?
 - c) What kind of biological laboratory test would you recommend to ascertain the status of the risk?
 - d) Briefly describe two types of affordable methods that are used to make water safe for drinking at household level.

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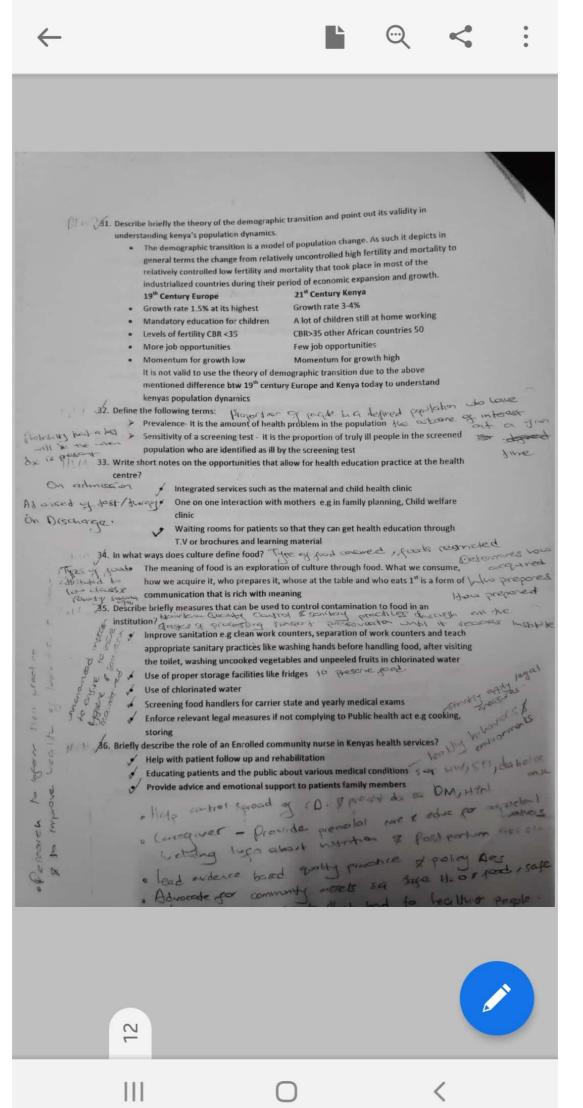
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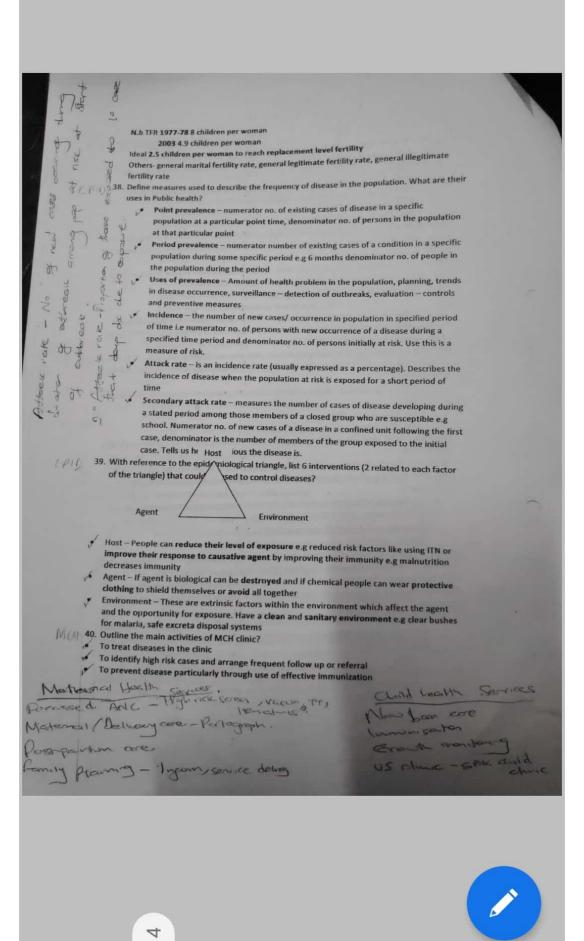


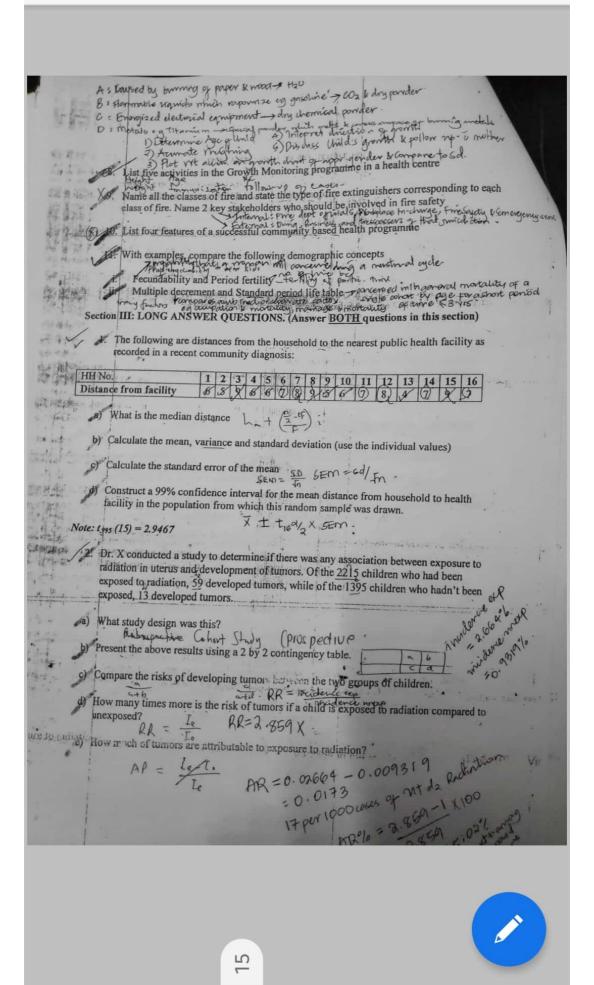
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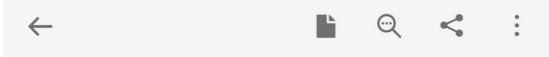


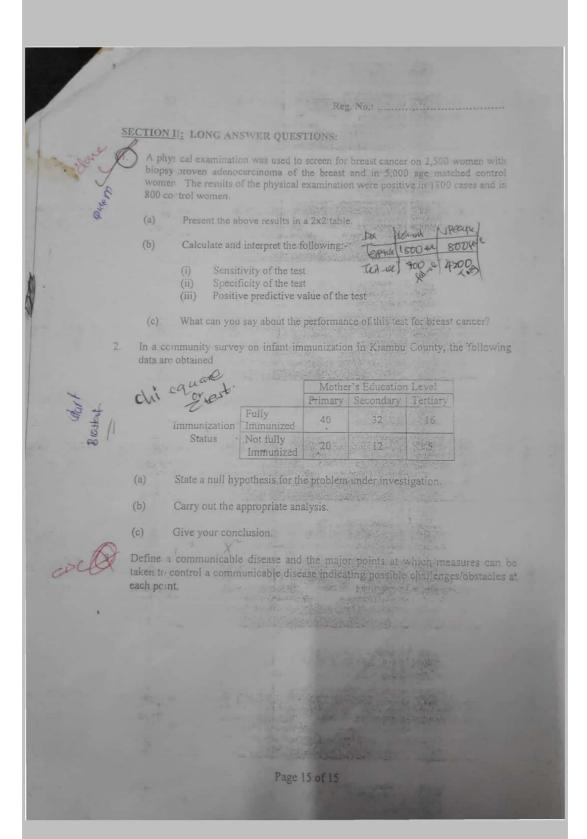








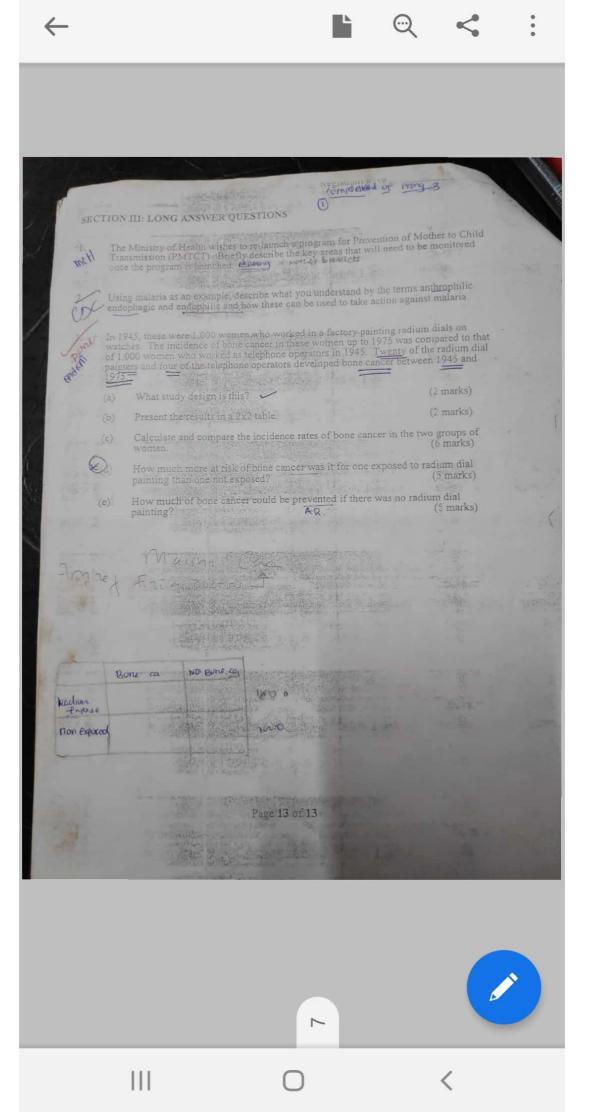




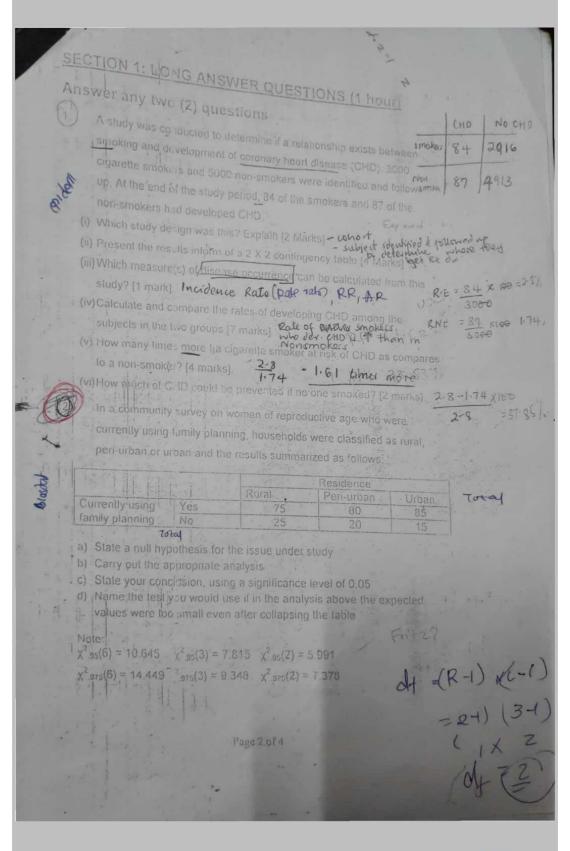
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SECTION 2: SHORT ANSWER QUESTIONS [1 hours]. ANSWER SIX (6) QUESTIONS ONLY.

- Define the concept of cross elasticity of demand with an example.
- Using a schematic diagram, illustrate the causal chain of non-communicable diseases.
- a) Briefly discuss the merits and demerits of chlorination of drinking water (2 marks
 - b) Define critical control point (CCP) in respect to food hygiene and give **TWO** examples how CCP can be applied (3 marks).
- a) State the THREE epidemiologic variables that are considered when a foodborne outbreak occurs for the purpose of conducting case interviews and collection of samples (3 marks).
 - b) Name two main categories of pesticides that are not classified as organochlorines (2 marks).
- 5. Describe the five components of communication?
- 6. Describe the difference between de jure and de facto approaches of census enumeration (5 marks)
- 7. Select a cultural practice and outline any five (5) consequences for health

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