

UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE

MEDICAL LABORATORY SCIENCES DEGREE PROGRAMME

Statistics, Epidemiology & Research Methods - 4th Batch of Students

Year 2 Year End Examination - 24 November 2014

INDEX NO:	TIME: 9.45-11.1
	(one boun and 20

TIME: 9.45 -11.15 AM (one hour and 30 minutes)



Structured Essay Questions (SEQ). Answer all questions			
1.1 Define the following terms	(10 marks)		
Endemic:			
Pandemic:			
Incidence :			
1.2 List five (5) uses of epidemiology in Medical Laboratory Sciences.			
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2.1 List two (2) advantages and two (2) disadvantages of case-control studies	(8 marks)
Advantages	
a	
b	
Disadvantages	
a	
b	
	••••••
2.2 Describe the term Descriptive Epidemiology	(10 marks)

2.3 What are the characteristics a	
2.3 What are the characteristics of a good screening test?	7 marks)



A researcher is interested in identifying whether there is a gender difference in the prevalence of asthma in children. A representative sample of 400 children (200 male and 200 female) was investigated. Fifty (50) male and 40 female children were found to be having asthma.

/	3.1 write null and alternative hypothesis	(10 marks)
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	3.2. Test the null hypothesis at 5% level.	(15 marks)
	(Chi square table value at 5% level is 3.84)	(15 marks)
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/./	Describe briefly the term Focus Group Discussion.	(10 marks)
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4.2	What is the importance of doing a literature review when writing	
		(15 marks)
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