

UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE

BSc MLS degree programme

Year end examination – year 1-6th Batch - 24th June, 2014 BASIC STATISTICS-Theory Structured essay questions

	Answer all the questions. Use only the space provided for answering.			
	INDEX NO:	TIME: 9.00 am - 10.00am		
1.				
	1.1 List three characteristics of the Z curve (15 marks)			
	a			
al .	b			
	c	A COLD TO SERVICE STREET	4	
	1.2 List three interval scale variables (15 marks) a	S OFER DO	0	
	b	No.		
	C	The second secon		
	1.3 The HDL levels of a group of men (n=100) and women men, the average HDL level was 55 mg/dL (SD = 10 mg/dL level was 60 mg/dL (SD = 5 mg/dL).	(n=100) were measured. In g/dL). In women, the average		
	1.3.1 Calculate the 95% CI for the population			
	1.3.1 Calculate the 95% CI for the population mea	an of HDL level in men (20 marks)		
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	1.3.2. Calculate the 95% CI for the population mean	of HDL level in women (20 marks)		

	1.3.3	Explain whether there is a significant difference of the mean HDL levels between men and women? (10 Marks)
	1.	4 Explain the following terms.
		1.4.3 Quota sampling method (10 marks)
1	Act In Car	
127		1.4.4 Correlation coefficient (10 marks)
1	32	
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應	of of la 12 ec	study was conducted to determine whether there is any association between choice medical laboratory services and level of education in people living in Galle. A total 200 individuals were surveyed and 120 participants preferred government medical boratory services and 80 preferred private medical laboratory services. Out of the 20 participants who preferred government medical laboratories, 50 had higher ducational qualifications. Out of the 80 participants who preferred private medical boratories, 40 had higher educational qualifications.
	2.	1 State null and alternative hypothesis. (20 marks)
(4)		2 Draw a 2x2 table for the above data and calculate expected frequencies 0 marks)

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2.3 Test the hypothesis at 5% significance level. (20 marks)

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2.4 What can you conclude from the state of
2.4 What can you conclude from the results? (20 marks)
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