



UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE

MEDICAL LABORATORY SCIENCE DEGREE PROGRAMME

Year End Exam Year 2 – 6th Batch

STATISTICS and RESEARCH METHODOLOGY MLS 2202 (Theory II)

Date : 27th April 2016

Time: 10.00 am - 12.00 noon

INDEX NO:.....

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Short Answer Essay Questions - Answer all questions

1.1 Cholesterol levels of a sample of patients with heart diseases living in Galle in the Southern province were taken to estimate the average (mean) cholesterol levels of the patients.

1.1.1 What is (are) the variable (s) in the above study? (15 marks)

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1.1.2 What is (are) the statistic (s) used in the above study? (15 marks)

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1.1.3 What is the reference population of the above study? (15 marks)

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1.1.4 What would be the best sampling method that can be used to select sample subjects if the researcher is having a small budget? Give reasons (25 marks)

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1.2. Give two (2) examples for each of the following variables. (12 marks)

1.2.1 Categorical variable a.....
b.....

1.2.2 Continuous variable a.....
b.....

1.2.3 Nominal variable a.....
b.....

1.2.4 Dichotomous variable a.....
b.....

1.3 What is “Operationalizing a variable”. Explain the term using an example.
(18 marks)

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2.

2.1 List two characteristics of a bar chart (20 marks)

a.....

b.....

2.2 List four measures of dispersion of a continuous data set (20 marks)

a.....

b.....

c.....

d.....

