INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA BUMS LEVEL II – SECOND END SEMESTER EXAMINATION – APRIL 2015 RESEARCH METHOLOGY AND BIO STATISTICS - II

COURSE CODE - TS 2202

Time: 1 hour 1.00. p.m. – 2.00 p.m.

	Index no	
Answer all questions.		
Pa	rt I - Structured Questions	
01. 1.1 What is "Bio statistics"?		(02 Marks)
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1.2 How bio statistics helps decisi	ion making in community medicine?	(04 Marks)
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(s/rs/6-10)		02 2 1 Define Note
1.3 Define the "population" and "	sample"	(04 Marks)
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	1.4 What do you mean by frequency distribution?	(05 Marks)
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	1.5 What is the cumulative frequency distribution?	(05 Marks)
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	268 B 52.3	
02.	2.1 Define the term "continuous random variable"?	(04 Marks)
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		•••••
	2.2 Define the term "mode"?	(03 Marks)
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2.3 What do you mean by group data?	(04 Marks)
2.4 What do you mean by the "variance"?	(04 Marks)
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2.5 Dwiefly cymlain the methods of studying acqualation	(05 341)
2.5 Briefly explain the methods of studying correlation	(05 Marks)
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Part II - Essay Questions

1. The following data shown in table 1 were drawn from 15 apparently normal males between ages 14-34 years.

Table 1: body weight and serum cholesterol level among fifteen males between ages 14-34 years.

Number	Serum Cholesterol, mg/100cc (Y)	Body weight, in Kilograms (x)
1	163.5	56.0
2	158.6	52.9
3	157.2	57.0
4	154.9	56.8
5	157.1	57.0
6	155.4	62.1
7	170.2	59.9
8	182.3	69.4
9	175.8	63,8
10	181.9	78.4
11	176.5	62.3
12	180.2	69.7
13	181.2	78.9
14	175.0	59.7
15	168.9	52.3

a) Find out the nature and the strength of the relationship among the body weight and Serum
 Cholesterol level. (40 marks)

b) Plot the data in table 1

(10 marks)

c) Interpret your findings

(10 marks)

28.04.2015