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UNIVERSITY OF JAFFNA, SRI LANKA UNIT OF ALLIED HEALTH SCIENCES BASIC SCIENCES

First YEAR SECOND SEMESTER EXAMINATION – Feb 2017 AHSBS1211 BASIC STATISTICS

Date: 07.02.2017

Time: 02 hours

Answer any TWO (02) questions out of three questions.

1. A hospital pharmacist measured the temperature of the refrigerator for 30 days in term of degree Celsius, as follows:

3	3	4	4	. 5	6
3	3	4	4	5	6
3	3	4	4	5	6
3	3	4	4	5	-1
12	12	4	4	5	-1

1.1 Write the type of scale was used to measure the variable.

(20Marks)

1.2 Draw a stem and leaf plot for the data.

(50Marks)

1.3 Describe the result in more appropriately.

(30Marks)

2. An antihypertensive drug was tested in 15 samples.

Blood	Base	144	115	150	150	135	120	144	147	110	138	152	140	125	135	120
pressure	line															
(mm/hg)	2	124	110	120	110	115	100	115	122	98	114	125	112	109	110	100
	months															
	after															

2.1 Draw a box plot for baseline blood pressure and the blood pressure after two months. (70 Marks)

2.2 With your graph comment the effectiveness of drug.

(30 Marks)

3. A research was conducted to find the food habit and obesity.

Student code	Height (cm)	Weight (Kg)	BMI*	Gender#	Income group s	
Α	165	79	29	2	1	
В	174	96	32	1	1	
C	155	89	37	1	2	
D	189	92	26	2	3	
E	164	107	40	1	1	
F	178	102	. 32	1	3	
G	155	80	33	1	3	
Н	175	83	27	2	1	
I	180	85	26	2	1	
J	164	88	33	2	2	
K	156	75	31	2	2	
L	188	84	24	1	1	
M	150	94	42	1	3	
N	155	107	45	1	3	
O	160	89	35	· 1	1	
P	181	99	30	2	1	
Q	158	90	36	1	3	
R	160	90	35	2	3	
S	181	62	19	1	1	
T	197	109	28	1	2	

*BMI= Body mass index, <25: normal, 25.1-29.9 over weight, >30 obese # 1= Female, 2=Male \$ 1= Poor, 2= Average, 3= Rich

3.1 How to describe the parameters of the weight and income group? (25 Marks) 3.2 Draw an appropriate graph for gender. (50 Marks) 3.3 Write a brief report on income group and BMI. (25 Marks)