UNIVERSITY OF JAFFNA, SRI LANKA
UNIT OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER EXAMINATION – March 2019
AHSBS 1211 BASIC STATISTICS

Date: 22.03.2019   **Time: 02 hours**

Answer all questions.

1. A recorded research of 15 participants are given in the table 1.
   Table 1.

Patient.ID	Gender	Age group	Cost of treatment(Rs.)	Distance from home (km)	Income level
1	M	P	100	2	1
2	F	A	110	25	2
3	F	E	200	6	2
4	F	E	170	27	1
5	M	E	100	85	2
6	F	E	190	2	2
7	F	E	160	4	2
8	M	E	140	10	2
9	F	E	150	26	1
10	F	P	150	5	2
11	F	P	180	3	2
12	M	A	100	2	2
13	F	E	120	4	1
14	M	E	200	1	2
15	M	E	150	1	2

M=Male, F=Female, P=paediatric, A= Adult, E= Elderly, 1=Rich, 2= poor

    1.1 Name type of scales used to measure each variable.   (10 Marks)

    1.2 Calculate the central tendency of each variable?   (20 Marks)

    1.3 Calculate the standard deviation of cost of treatment?   (20 Marks)

    1.3 Draw more appropriate **one graph** for genderand cost of treatment variable.   (50 Marks)

2   Assume a normal distribution,500 nursing graduates selected for new appointment,

hadaverageheightof 5 feet and 8 inches with standard deviation of 6.67 inches.

2.1 What is the 50th percentile value of nursing graduate and give the reason for the calculation. (20 Marks)

2.2 Calculate the z value for the nursing graduates' height of 6 feet and 6 inches? (20 Marks)

2.3 Find the number of nursing graduate height fall above 6 feet and 6 inches. (20 Marks)

2.4 How many nursing graduates'height are fall below 5 feet? (20 Marks)

2.5 The cut off Z score for nursing appointment in Ministry of Health is 1. Calculate the number of nursing graduate will be selected for appointment. (20 Marks)