UNIVERSITY OF JAFFNA, SRI LANKA

FACULTY OF ALLIED HEALTH SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION– 2020

AHSBS 1211 BASIC STATISTICS

Date: 01.09.2022   **Time: 02 Hours**

ANSWER ALL 02 QUESTIONS

1. Recorded research of 10 participants are given in the table 1.

    Table 1.

Patient.ID	Monthly income (thousand)	Type of disease	Health seeking Behaviour	Face mask protection Level	Temperature
1	20	D	P	P	37.0
2	11	T	G	N	38.0
3	13	A	G	P	37.5
4	25	A	P	N	37.0
5	12	A	G	N	39.1
6	24	D	P	N	38.3
7	11	T	P	N	37.0
8	19	D	G	N	37.6
9	9	T	G	H	37.0
10	24	A	P	N	37.0

T=Thyroid, H=hypertension, A=Asthma G= Government Hospital, P= Private Hospital, P=Poor, N= Normal, H= High

1.1	Name type of scale used to measure each variable	(20 Marks)
1.2	Calculate the central tendency of each variable	(30 Marks)
1.3	Calculate the variation/dispersion for suitable variable.	(20 Marks)
1.4	Draw the appropriate graph for the variable Health seeking behavior	(20 Marks)
1.5	Comment on health seeking behavior and level of income	(10 Marks)

2.   A hospital pharmacist record the temperature (Celsius) of
        refrigerator for 30 days which is given below:

4	3	7	8	6	3
5	7	2	9	1	5
2	6	5	5	2	9
2	5	5	4	4	5
3	4	5	7	8	9

2.1   Write the type of scale was used to measure the variable   (10 Marks)
2.2   What is the most suitable statistic for the data   (10 Marks)
2.3   Describe the result in more appropriately   (20 Marks)
2.4   Draw stem and leaf plot for the data   .   (20 Marks)
2.5   Define the term population, Sample, statistics and parameter with
      one example   (20 Marks)
2.6   Distinguish inferential statistics and descriptive statistics (20 Marks)