UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY Of ALLIED HEALTH SCIENCES
BACHELOR OF PHARMACY
FIRST YEAR FIRST SEMESTER EXAMINATION IN BPharmHons 2022
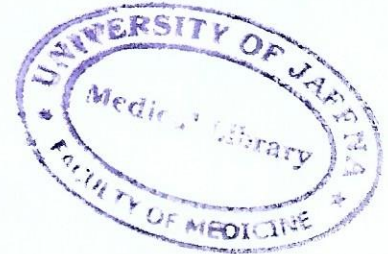PHABS 1131   Basic Statistics

Date: 09.12.2023   Time: 01 Hours

ANSWER ALL QUESTIONS. Marks allotted to each part are given within brackets.

1.

1.1   Write scale of measurement with one example.   (20 Marks)

1.2   Write the scale measurement for the following variable
      12.1 Average monthly salary in rupee.   (05 Marks)
      1.2.2 height as "tall" and "short"   (05 Marks)

1.3   In a class 50 students are there. Among them, ten (10)
      student's marks in a subject biology is given below:

Biology	Marks	Grade
Student 1	55	C
Student 2	75	B
Student 3	60	C
Student 4	50	C
Student 5	60	C
Student 6	72	B
Student 7	60	C
Student 8	85	A
Student 9	66	B
Student 10	45	F

      1.3.1 Name the more suitable central tendencies for marks   (10 Marks)
            and grade.
      1.3.2 Draw a suitable graph for marks and grade   (30 Marks)

1.4   Answer the question with given table. The marks are
      normally distributed

Subj.	Marks mean	SD
BIO	50	0
CHE	50	8.2
PHY	60	10
N=200		

      1.4.1 Write the median and mode of the subject BIO and   (10 Marks)
            CHE.
      1.4.2 Write the marks distribution of the subject BIO and   (10 Marks)
            CHE.
      1.4.3 How many students got the marks below 40 in the   (10 Marks)
            subject of PHY

2. The mean height of entering freshmen for basketball is 68 inches and the SD of height is 6.67 inches and there will be 1,000 entering freshmen. Assume the data is normally distributed

2.1	Calculate the 50th percentile basketball-entering freshmen and give a reason for your answer	(20 Marks)
2.2	How many entering freshmen will be over 6'6" (78 inches) tall	(20 Marks)
2.3	A cut off Z score for the award is 2.5. How many freshmen are eligible for the award?	(20 Marks)
2.4	Explain the: 2.4.1 term variable 2.4.2 different types of variables in a research study	(30 Marks)
2.6	Differentiate population and sample	(10 Marks)