

Term End External Examination 1st Semester (Session-Feb 2025)

Subject: Skill Enhancement Course

Course No and Title: STS122S/ Statistical Data Analysis-I Using SPSS

Time: 1.15 hours Max Marks:50 Min. Marks:20

Section A: Objective Type Questions

- Q1. Choose the appropriate Answer: (4x1.5=06)**
- Which of the following belongs to the measure of central tendency?
 A Range B Quartiles
 C Mode D None of these
 - If scales are different in data sets, which of the following statistical tool can be used?
 A Quartiles B Mean Deviation
 C Coefficient of Variation D None of these
 - Which of the following is used to identify the partition values?
 A Pie-Chart B Bar diagram
 C O give D None of these
 - Which of the following belongs to graphical representation of data?
 A Pie-Chart B Bar diagram
 C O give D None of these

Section-B: Descriptive Type Questions (Short Type)

- Q2: Answer all the Questions (4 x 4 =16)**
- Define briefly discrete frequency distribution?
 - How to locate the positional averages from the graphics?
 - In what situation standard deviation is used?
 - How to compute the descriptive statistics in SPSS

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (2 x 7=14)

- Q3. Discuss the concept of ogive curve. Write its applications?**

OR

The following data represents the marks of students in a science test:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Students	3	5	8	12	14	10	6	2

- Sketch a frequency curve based on the data.
 - Find the total number of students.
 - Identify the class interval with the highest frequency.
- Q4. Define median. Calculate median deviation from the following data.**

S.No.	1	2	3	4	5	6	7	8	9	10
Marks in Major	10	12	13	45	15	12	12	10	10	12
Marks In Minor	11	10	12	20	13	10	14	12	10	12

OR

Discuss the measures of Dispersion. Write its importance and applications?

Section – D: Descriptive Type Questions (Long Type)

Answer any one of the following: (1 x 14=15)

- Q5. The cumulative frequency distribution of marks obtained by students in a test is given below:**

Marks (Less than)	10	20	30	40	50	60	70	80
Cumulative frequency	3	8	16	28	42	52	58	60

- Draw an Ogive for the given data.
 - Find the median class.
 - How many students scored more than 50 marks?
- Q6. Define Standard deviation. Calculate standard deviation and mean deviation from the following data.**

Height	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Weight	20	30	20	10	11	12	13