2026
Skill Enhancement Course
Data Analysis
Paper Code : SEC0215503N
Time : 2 Hours
Full Marks : 45

(The figures in the margin indicate the full marks for the questions)

1. Answer the following as directed : 1×5=5
   a) What is Statistics?
   b) What is mean?
   c) What is Correlation?
   d) Define Primary data.
   e) What is Scatter diagram?

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2. Answer ***any five*** of the following questions : 2×5=10
   a) Distinguish between diagrammatic and tabular presentation.
   b) Write two uses of Pictograms.
   c) Write two differences between histogram and bar diagram.
   d) Define rank correlation.
   e) Explain correlation matrix?
   f) What is perfectly positive correlation?
   g) Write two merits of scatter diagram.
   h) What is linear correlation give example?
   i) Write two merits of Karl Pearson coefficient of correlation.
   j) Write two merits of mean.

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3. Answer ***any four*** of the following questions : 5×4=20

a) Explain the properties of Karl Pearson coefficient of correlation.

b) Explain the different types of correlation.

c) Explain one dimensional and two dimensional diagramnatic presentation of data.

d) Discuss the scatter diagram method of correlation.

e) Write differences between Primary and Secondary data.

f) A set of marks scored by 10 students are given below. Estimate median :

Marks : 30	33	39	35	37	42	58	48	55	50

g) Marks obtained by 50 students are shown below. Calculate arithmetic mean :

Marks	30	35	42	48	50	57
No. of students	9	11	15	8	5	2

h) Write merits and demerits of median.

4. Answer ***any one*** of the following : 10×1=10

a) Find the correlation between age and sick days from the following data :

Age (X)	30	32	35	40	48	50	52	55	57	61
Sick Days (Y)	1	0	2	5	2	4	6	5	7	8

b) Calculate arithmetic mean median and mode of the frequency distribution given belows. Hence calculate using the empirical relation among the three :

Class limit	59 - 61	61 - 63	63 - 65	65 - 67	67 - 69
Frequency	4	30	45	15	6

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c) The following data provides the ranks of 10 students in two subjects :

Statistics	9	6	1	2	3	7	10	5	8	4
Maths	1	5	8	2	6	7	10	4	9	3

Calculate rank correlation.

d) Discuss in detail various methods of diagrammatic and tabular presentation of data with suitable example.

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