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Note: (i) All questions are compulsory.

(ii) Use of Calculator is allowed.

Q.1) Answer the following questions

a) State True or False, Correct if necessary:

(10)

- i) Frequency curve always passes through origin.
- ii) In Stem and leaf diagram, stem consists of trailing digits.
- iii) Range can be calculated if we have open end classes.
- iv) Mean deviation is least when it is calculated from mean.
- v) Standard Deviation is second order central moment
- b) Answer in one sentence:

10)

- i) What do you mean by scale of measurement
- ii) Explain consistency of attributes.
- iii) What is mean empirical relation between mathematical means.
- iv) Give mean of first 15 natural numbers.
- v) Write formula for calculating Karl Pearson's coefficient of skewness.

Q.2) Attempt any two.

(20

- i) Write all condition for consistency of data for three Attributes.
- ii) Why we tabulate data? What are some component of tables? Write some features of a good table.
- lii) Write detailed note on sources of data.

Q.3) Attempt any two.

(20)

- i) Write a note on Histogram and Frequency Polygon.
- ii) Write merit and demerits of a) Mean b) Mode
- iii) Find median for following data and locate it graphically.

CI	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
f	10	18	25	22	17	13	30	5

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Q.4) Attempt any two.

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(20)

- i) Write detailed note on Measure of Dispersion.
- ii) Show that Variance is independent of change of origin but depends on change in scale.

Write expression of Variance for combined data.

iii) find the variance, standard deviation and coefficient of variance of following data.

C.I.	20-40	40-60	60-80	80-100	100-120	120-140
f	7	12	16	13	13	4

Q.5) Attempt any two.

20)

- i) What are notation and terminology used in Theory of attributes, Prove that total number of class frequencies in case of 'k' attributes is 3^k .
- ii) Find all the Quartiles and D6 graphically as well as by formula.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of	8	12	20	34	14	2
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iii) The daily sales of news papers (in 00') are given below:

42,42,35,36,33,33,28,29,18,27,31,32,33,32,39,52,55,65,36,37,38

Draw Box-plot and comment on your inference.

* All The Best *****