

UNIT 10: Basic statistical measures and their interpretation

Specific Objectives:

1. To learn some ways of measuring central tendency and dispersion of distributions
2. To be able to infer from these measures.
3. To be able to construct and interpret graphical representations of distributions, including stem-and-leaf diagrams.

	Detailed Content	Time Ratio	Notes on Teaching
27	10.1 Measures of central tendency: mean, weighted mean, mode, modal class and median.	3	This is essentially a revision topic, however due emphasis on weighted average is expected with special reference to index number.
	10.2 Measures of dispersion: range, interquartile range, percentiles, variance and standard deviation.	4	The advantages and disadvantages of respective measures of dispersion should be stressed and daily life examples, wherever possible and relevant, should be quoted in support of the discussion. Symbols like Q_i = i-th quartile, $i = 1, 2, 3$ and P_i = i-th percentile, $i = 1, 2, 3, \dots, 99$ may be introduced.
	10.3 Frequency distribution, cumulative frequency distribution and their graphical representations including stem-and-leaf diagrams and their interpretation.	3	General revision on these sub-topics is essential. It is felt that the significance of and difference between grouped and ungrouped data should be stressed. Special attention should be paid to the suitability of a graph in providing information and conclusions of a certain type. Emphasis should be laid on interpretation and also the use of graphs for prediction. The stem-and-leaf plot which is new in the context of local syllabuses should be discussed with adequate supporting examples.
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