ASSOCIATE DEGREE IN ARTS Statistics (Optional)

Outlines of Tests

Marks 100 Paper: (Written) Time - 3 hours

Syllabi and Courses of Reading

Paper: (Written)

1. Introduction

Definition, Characteristics and limitations of statistics, Collection, classification and tabulation of data

Graph and Diagrams

Bar and pie diagrams. Graphs of frequency distribution viz. Histogram, frequency polygon, frequency curve, cumulative frequency curve, Graphic interpolation.

3. Averages

Elementary knowledge and numerical illustrations of arithmetic mean, median mode, and weighted average. Smoothing of fluctuations by moving average method.

4. Dispersion:

Elementary knowledge and numerical illustrations of range, fractiles, quartile deviation, standard

deviation, co-efficient of skewness and co-efficient of variantion.

Attributes and Chi-Square: Concept of attribute, idea of independence and association, dichotomy, co-efficient of association, contingency table. Chi-square.

6. Correlation:

Concept of regression, simple correlation and rank correlation with numerical illustrations.

Concept of sampling. Definition of population and sampling unit. Purposive and random sampling. Drawing of a random sample without replacement from finite population.

Books Recommended:

Zia-ud-Din, M., Practical Statistics with Fundamentals of Theory, 8th edition, The Punjab Educational Press, Lahore.
Chambers, E.G., Statistical Calculations for Beginners. Cambridge University Press, London.

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