Syllabus

Punjab University, Chandigarh

Business Statistics

BBA–I, Semester–II

Course Code: BBAS122

Time Allowed: 3 Hours *Max Marks: 100*

[External Assessment: 80 Marks
Internal Assessment: 20 Marks]

INSTRUCTIONS FOR THE PAPER SETTERS

Note: The question paper covering the entire course shall be divided into three sections:

Section A: This section will have 6 short-answer questions from the entire syllabus. Students are required to attempt 4 questions from this section. Each question will carry 5 marks; the total weightage being 20 marks. (20 Marks)

Section B: This section will consist of essay type/numerical questions from Unit-I of the syllabus. The candidate will be required to attempt two questions out of three questions. Each question will carry 15 marks; the total weightage being 30 marks. (30 Marks)

Section C: This section will consist of essay type/numerical questions from Unit-II of the syllabus. The candidate will be required to attempt two questions out of three questions. Each question will carry 15 marks; the total weightage being 30 marks. (30 Marks)

Important Note: In all numerical papers the paper setter is required to set numerical questions as follows:

Section A : Four numerical questions out of six questions.

Section B and C: Two numerical questions out of three questions.

Objective: To impart the students about the basic knowledge of statistics.

Unit-I

Statistics-Definition, Functions, Scope, Usage and Limitations of Statistics.

Measures of Central Tendency: Types of Averages- Arithmetic Mean (Simple and Weighted), Median and Mode, Harmonic and Geometric Mean.

Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation.

Correlation Analysis: Meaning, Types, Measurement of Simple Linear Correlation, Karl Persons Correlation Coefficient Method, Rank Correlation Method (Excluding multiple correlations).

Regression Analysis: Simple Linear Regression, Why there are two Regression Lines, Estimation of Coefficient (Intercept and Slope Parameters). Properties of Regression Coefficient.

Unit-II

Measures of Dispersion, Skewness and Kurtosis.

Index Numbers: Meaning and Importance, Methods of Construction of Index Numbers: Weighted and Unweighted; Simple Aggregative Method, Simple Average of Price Relatives Method, Weighted Index Method: Laspeyres Method, Paasches Method and Fisher's Ideal Method including Time and Factor Reversal Tests, Consumer Price Index.

Time Series Analysis: Components, Estimation of Trends (Graphical Method, Semi Average Method, Moving Averages Method and Method of Least Squares), Seasonal Variation.