

**Business Statistics II**

**Max. Marks:100**

**External Assessment: 80**

**Internal Assessment:20**

**Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.**

**COURSE CONTENTS: -**

Correlation: Introduction; Importance; Types of correlation; Methods of studying correlation. Linear regression: Introduction; Importance; Comparison of correlation and regression analysis; Methods of studying regression; Properties of regression lines; Error of estimate; Total variance; Explained variance; Unexplained variance; Coefficient of determination.

Probability: Introduction and significance; Definition of probability; Joint, marginal and conditional probabilities; Independent, Dependent, Mutually exclusive; Exhaustive and Complementary events; Theories of probabilities: Bayes's theories.

Time series: Definition; Components; Analysis; Measurement of trend, seasonal, cyclical and random variation.

Hypothesis testing: Procedure for testing hypothesis tests in attributes; Tests in variables (small and large samples).

Computation of above mentioned statistical techniques with Microsoft excel.

**Suggested Readings:**

D.NElhance

R.SBhardwaj

T.NSrivastava

S.CGupta

house

B.MAggarwal

Levine

Education

S.PGupta

Fundamental of statistics Kitabmahal

Business statistics Excel Books

Statistics for management McGraw Hill

Fundamental of statistics Himalaya publishing

Business statistics Sultanchand

Business statistics- A first course Pearson

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