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Theory: 80
Practical: 20

Objectives:

I). To provide knowledge and information about Statistical Applications.
2). To create skill and ability among students for using the Statistical Methods,
Tools, Techniques by using I.T. devices.

1. **Logarithms**   ~~08~~ 12

Introduction, Principle of logarithms, Procedure to find out log values,
mantissa Value & natural number value. Rules for Multiplication and Division.

2. **Correlations**   12

Meaning of co-relation, Definition of co-relation, Types of co-relation,
Methods of studying co-relation: Karl Pearson's, & Spearman's Rank
Correlation Methods of Co-relation of co-efficient.

3. **Regression**   12

Meaning of regression, Types of regression: linear regression, Simple and
Multiple regression Methods of estimating simple regression lines: Freehand
Method & Regression Equations

4. **Index Numbers**   12

Meaning of Index number, Types of Index number, Uses of Index number,
Methods of constructing price indices: Laspeyre's, Paasche's, Kellye's,
Dorbish & Bowley's, simple aggregative & Fisher's Ideal Index Number.

5. **Probability and Expected Value.**   12

Meaning and Nature of Probability, Definitions of probability, Applications of
Probability-Addition & Multiplication, Law of Probability, ~~Conditional probability~~.

Internal Work and Assignment.   ~~04~~

Statistical Application with Computer (Only for knowledge & Practical application)
Use of Excel, Knowledge of SPSS and other Statistical and Mathematical Tools and –
Software's

Note: Practical's to be conducted based on curriculum given in semester I and II
of Business Mathematics and Statistics by using Computers & other I.T. Devices
Can be included in 20 marks,

Books Recommended'

1. Statistical Methods: Dr. S.P. Gupta, Sultan Chand & Sons.
2. Fundamentals of Statistics: D.N. Elhance, et.al, Kitab Mahal.
3. Statistics (Theory, Methods & Application): Dr. D.C. Sancheti, V.K. Kapoor, Sultan Chand &
Sons.
4. Fundamental of statistics Dr. D.N. Elhance
5. Problems in Statistics Dr. Y.R. Mahajan
6. Essence of Business Mathematics — Dr. R.K. Rajput