HAMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

SECOND YEAR B. B. A. Paper- 4 BUSINESS STATISTICS

(Effective from June 1999)

- 1. Collection, Classification of data Prequency, distribution, Measurement of central tendency Mean, Median, Mode, Variance, standard Deviation range quartile deviation. 10%
- 2. Probability- Sample space, event, probability of and event addition and multiplication rules, independent events. 15%
- 3. Idea of a random variable and its Mathematical expectation. probability distribution and their applications. 15%
- 4. Large & small sample tests, Analysis of variance one-way & two-way classifications with one observation per cell regression.
- 5. 1. Regression correlation: measures of correlation / linear regression, tests of significance. 10%
 - significance.

 2. Multiple & partial correlation upto three variance definitions and computations.

10%

- 6. Sampling method- sample surveys & basic concepts of simple random sampling, stratified random sampling: Two Stage sampling, Systematic and cluster sampling. 10%
- 7. Time series analysis components of time series & methods of estimation of trend seasonal components by moving averages and by linear regression. 10%
- 8. Index Numbers: Fixed Base and chain Base method. Price & Quantity index, Factors construction of index numbers, deflating prices and income Laspayer's, Paashe's & Fisher's Index Number, Time Reversal and Factor reversal Tests.
- 9. Statistical quality control: Charts for variables and attributes Elementary acceptance sampling plans, single sampling plan for attributes.

Reference Book:

- 1. Practical Business Statistics Frederick F. Croxton & Dudley Asia publishing House, Ps. 20.
- 2. Modern Business Statistics John B. Freund & Frank, J. Williams, Modern Asia Edition (Prentice Hall Inc. Charles E. Tuttles)
- 3. Statistics: Methods & Analysis, Lincol L. Chao, McGraw-Hill Book Co. (international Student Edition) S. 5.20.
- 4. Statistics Analysis for business Decision, William A. Supurr & Charles P. Bonini Richard D. Triwin Inc. Home wood, illunoise S..9.95.
- 5. Wheldon's Business statistics and Statistics Method G.L. Thrikettle Macdonald & Evansm Ltd.
- 6. Statistics for Economic and Business, Donald W. Paden E.F. Lindquist, McGraw-Hill Book Co, India. S. 2-15.
- 7. Executive Decisions thought O.R. Wagner T.M.