

VEER NARMA SOUTH GUJARAT UNIVERSITY

S.Y.B.A.

Statistics Higher Paper- I

(To be effective from July 2003)

	Weights
1. Advantages of sampling method of Surveys, Requirements of a good sample, planning and method of inquiry. Simple Random sampling and stratified Random sampling methods.	15%
2. Analysis of variance: One Way and two-way classifications.	15%
3. Time – series : Different components of time-series, measurement of trend by the methods of free –hand curve, moving averages, least-squares (up to second degree polynomial) measurement of seasonal fluctuations: (i) Method of simple Averages (ii) Ratio to moving Average method.	25%
4. Laws of demand and supply, market equilibrium, Elasticity of demand and supply. Revenue & cost functions, fitting of simple demand & production functions.	20%
5. Vital statistics : Measurement of mortality. Crude death rate, specific death date, standardised death rate, Measurement of fertility rate. Age specific fertility rate & total fertility rate. Life table and its uses.	25%

BOOKS RECOMMENDED :

1. Cochran	: Sampling Techniques
2. Goon, Gupta, Dasgupta	: Fundamentals of Statistics
૩. ડો. એસ. એમ. શાહ	: નિદર્શન પદ્ધતિઓ અને પ્રાયોગિક અભિકલ્પનાઓ
૪. ડો. એમ. સી. જયસ્વાલ	: અર્થવિષયક આંકડાશાસ્ત્ર

VEER NARMA SOUTH GUJARAT UNIVERSITY

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Statistics Higher Paper- II

	Weights
1. Advantage of Statistical quality control, construction, use and interpretation of control charts for mean and Range.	20%
2. Construction, use and interpretation of control charts for fraction defective and number of defects.	20%
3. Single and double sampling inspection plans for attributes, concepts of producer's and consumer's risks. Ideas of O.C. , ASN., ATI and AOQ curves.	20%
4. Introduction to linear programming problem, feasible solution, optimum solution by graphical method.	10%
5. Transportation problem: balanced and unbalanced T.P.Method for intial basic feasible solutions, North – west corner Method, Row- minima method column-minima method.	10%
6. Assignment problem : Humgarian method for solving an assignment problem.	10%

BOOKS RECOMMENDED:

૧.	ડો. આર. ટી. રતાણી	: સાંખ્યિકીય ગુણવત્તા નિયંત્રણ
૨.	ડો. એમ. સી. જયસ્વાલ	: અર્થવિષયક આંકડાશાસ્ત્ર
૩.	E.L.Grant	: Statistical quality control
૪.	J.K. Sharma	: O.R. Theory and applications
૫.	S.D.Sharma	: Operations Research