

VEER NARMAD SOUTH GUJARAT UNIVERSITY

F.Y.B.A.

Elements of Statistics

To be effective from July 2002

		Weights
1	Nature and scope of Statistics : Meaning and definition of Statistics. Uses of Statistics, limitation of Statistics.	5%
2.	Compilation : Collection of data, Primary data, secondary data, methods of collecting primary data, methods of collecting secondary data, questionnaires.	5%
3.	Classification and Tabulation: Meaning of classification simple classification, meaning of Tabulation, simple tables, guideline and precautions for tabulation.	10%
	Statistical Data : Discrete data continuous data, frequency distribution cumulative frequency distribution.	
4.	Diagrammatical Representation of various types of statistical data: Effectiveness and uses of diagrams in statistics.	5%
5.	Measures of central tendency and Dispersion : Meaning of average, meaning of central tendency : Mean, Median, Mode, quartiles, deciles percentiles.	30%
	Absolute and relative dispersion, measures of dispersion: Range, quartile deviation, mean deviation, standard deviation, variance.	
6.	Skewness : Absolute and relative measures of skewness. Karal parson's coefficient of scewnness and Bowley's coefficient of scewnness.	15%
7.	Correlation and regression : Definition of correlation. Different measures of correlation. Coefficient of correlation, methods of finding correlation coefficient: scatter diagram, Karal pearson's coefficient of correlation, rank correlation.	15%
	Defination of regression best regression. Line, regression equations, coefficient of regression, interrelation of coefficient of correlation and coefficient of regression.	15%

Books Recommended :

1	P.G.HOEL	:	Elementary Statistics
2.	SPIEGAL	:	Statistics
3.	Goon, Gupta Dasgupta	:	Fundamentals of Statistics
4.	પટેલ બ્રહ્મભટ્ટ, પટેલ	:	આંકડાશાસ્ત્ર પરિચય

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Statistics

Higher Paper - I

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	Weights
1. Function: Definition of function, types of functions, linear function, parabolic function, domain and range drawing of linear and parabolic curves.	10%
2. Limits and differentiation: Definition of limit of function and rules, Definition of differentiation, Rules of n, x, x , differentia differentiation of function like x, a, e	15%
3. Elementary methods of interpolation: Definition of permutation and combination. Formulee for and their uses.	10%
4. Elementary theory of probability: Definition of probability, additive law of probabilitly, conditional probability, multiplicative law of probability, independent events.	25%
5. Mathematical expectation, moments: Definition of mathematical expectation, raw moments, central momets, formula for n	15%
6. Standard distributions: Binomial, poisson and Normal.	25%

BOOKS RECOMMENDED:

1. P.G.Hoel	:	Elementary statistics
2. SPIEGAL	:	Statistics
3. Goon, Gupta, Das Gupta	:	Fundamentals of Statistics
4. H. D. shah	:	ગણિતીક આંકડાશાસ્ત્ર

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Statistics

Higher Paper - II

	Weights
1. Large sample Tests:	20%
2. Concepts of sampling distribution and standard error. Definition of t, F, X ² distributions and small sample tests based on these distribution.	40%
3. Index number, construction and uses of index numbers. Price and cost of living index numbers. Time- Reversal and factor Reversal Tests.	20%
4. Concept of national income and methods of its estimation.	10%
5. Official statistics available in India relating to population and agriculture.	10%

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1. P.G.Hoel : Elementary statistics
2. Spiegel : Statistics
3. Goon, Gupta, Dasgupta : Fundamentals of Statistics
4. D.N.Elhance : Gundamentals of Statistics