

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

S.Y.B.Sc.

Statistical Methods (I D) (Half Paper)

Revision in the syllabus of Statistical Methods (I D) for S. Y. B.Sc. Which is Effective From July 2010-11.

1.PROBABILITY

(10% Weightage)

Definitions : Sample space, mutually exclusive, equally likely and exhaustive events, independent events. Addition and multiplication theorem of probability, conditional probability(Without proof), simple examples.

2. RANDOM VARIABLE:

(10% Weightage)

Definition & types of Random Variables. Properties of discrete random variable only. Definition of expected value. Addition and multiplication rules of expected value. (only for discrete random variables.) Definition of raw and central moments. Relation between central moments & raw moments. Definition of moment generating function about origin and its properties (without proof), simple examples.

3. MEASURES OF CENTRAL TENDENCY AND DISPERSION :

(10% Weightage)

Definition of mean, median, mode, harmonic mean and geometric mean, range, standard deviation, mean deviation from mean, quartiles and quartile deviation, examples for ungroup data, discrete and continues data.

4. DIATRIBUTIONS :

(10% Weightage)

Binomial, Poisson and Normal distributions, their properties (without proof) and examples based on them.

5. CORRELATION & REGRESSION :

(10% Weightage)

Linear regression and correlation : Meaning and definition of correlation between two variables. Scatter diagram, Kar-Pearson' Product moment correlation coefficient 'r' , rank correlation coefficient, some examples.

Meaning of regression, lines of regression, properties of regression coefficients, method of least square to obtain lines of regression (without proof), some examples.

REFERENCE BOOKS		
Sr.	Name of the Book	Author/s
1	Introduction to Mathematical Statistics	P G Hoel
2	Introduction to Mathematical statistics	Goon, Gupta, Das Gupta
3	Fundamental of statistics	D N Elhance
4	Advanced Practical Statistics	S P Gupta
5	Fundamentals of Applied Statistics	Kapoor & Gupta
6	Fundamentals of Mathematical Statistics	S C Gupta & V K Kapoor
7	Elements of Statistical Methods	S P Gupta