

**S.Y. B. COM. SEMESTER- IV  
STATISTICS PAPER-V (PRINCIPAL & SUBSIDIARY)**

**1. MOMENTS :** **(Weightage 20%)**

Definition, raw & central moments; relation between raw and central moments; measures of central tendency, dispersion, skewness and kurtosis based on moments; some examples.

**2. TESTING OF HYPOTHESIS & TESTING OF SIGNIFICANCE:** **(Weightage 40%)**

**A:** Statistical hypothesis (simple & composite), Test of a statistical hypothesis, null and alternative hypothesis, critical region, two types of errors, level of significance and power of the test; some examples.

**B:** Large Sample Tests: Testing the significance of single mean, difference between two means, difference between two standard deviations, correlation coefficient, single proportion, difference between two proportions.

**3. ACCEPTANCE SAMPLING BY ATTRIBUTES:** **(Weightage 40%)**

**A:** Problem of product control and lot acceptance; Principle of acceptance sampling, Concept of good and bad lots, Concepts of A.Q.L., L.T.P.D., Producer's risk, Consumer's risk, Rectifying Inspection Plans, A.O.Q., A.O.Q.L., some examples.

**B:** Sampling Inspection Plans: Single sampling plan, its O. C., ASN, and ATI curves; Double sampling plan, its A.S.N. and A.T.I. functions (no curve), some examples.

**BOOKS RECOMMENDED :**

1. Goon A.M., Gupta M.K. & Dasgupta (1986); Fundamentals of Statistics Vol- 11; World Press; Calcutta.
3. Grant E.L.(1964); Statistical Quality Control; Mc Graw Hill.
4. Duncan A.J. (1974); Statistical Control and Industrial Statistics; Taraporewala and Sons.
7. Gupta S.C. & Kapoor V.K.: Fundamentals of Mathematical Statistics ; Sultan Chand & Sons.
5. Murthy M.N. (1967); Sampling Theory and Methods; Statistical Publishing Society ; Calcutta.

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