Quantitative techniques

Science, Mathematics



Classification of Quantitative Techniques: There are different types of quantitative techniques. We can classify them into three categories. They are: 1. Mathematical Quantitative Techniques 2. Statistical Quantitative Techniques 3. Pprogramming Quantitative Techniques Mathematical Quantitative Techniques: A technique in which quantitative data are used along with the principles ofmathematicsis known as mathematical quantitative techniques. Mathematical quantitative techniques involve: 1. Permutations and Combinations: Permutation mearns arrangement of objects in a definite order.

The number of arrangements depends upon the total number of objects and the number of objects taken at a time for arrangement. The number of permutations or arrangements is calculated by using the following formula:= n! n r ! Combination mearns selection or grouping objects without considering their order. The number of combinations is calculated by using the following formula:= n! n r ! 2. Set Theory: Set theory is a modern mathematical device which solves various types of critical problems.

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Matrix Algebra: