

Section 11

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A1.

Linear programming - The word 'linear' means that the relationships are represented by straight lines, i.e., the relationship is of the form $y = a + bx$. In other words, it is used to describe the relationships among two or more variables which are directly proportional.

The word 'programming' is concerned with optimal allocation of limited resources.

L.P.P. is a mathematical technique which provides for allocation of limited resources in an optimal manner, on the basis of a given criterion of optimality.



* Important applications of L.P.P. &

Applications of L.P.P. are &

- 1) Agricultural applications
- 2) Military applications
- 3) Industry applications
 - ↳ (i) Product Mix
 - ↳ (ii) Production Planning
 - ↳ (iii) Assembly line Balancing
 - ↳ (iv) Blending Problem
 - ↳ (v) Trim Loss.