

Sec-2
Ans-1 Explain linear programming and important applications.

'linear' means relationships that are explained and represented by straight lines; i.e. relationships are of the form $y = a + bx$.

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

Thus, linear programming is a mathematical technique for determining the optimal allocation of resources and obtaining a particular objective when there are alternative uses of resources.

Importance - applications

- helps in agriculture
- helps in production mngt.
- helps in blending problems.
- helps in physical distribution.

