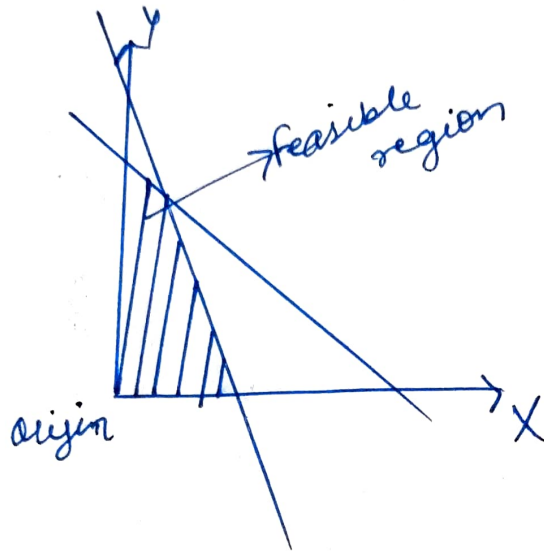


objectives of LPP.

- Sec-3  
Ans-1
- Decide product quantities. (Product Mix Problems)
  - Decide no. of advertisements (Media selection problems).
  - Decide least cost route (Transportation problem).
  - Establish optimal allocation (Assignment problem).
  - select the shortest route of salesman (Travelling salesman problem).
- (6)

## Mathematical Formulation :-

Formulation of LPP refers to translating the real world problem into the form of mathematical equations which could be solved.



- Step 1. Identify no. of decision variables which govern the behaviour of objective function.
- Step 2. Identify set of constraints of decision variable and express them in the form of linear equations.
- Step 3. Express the objective function in the form of linear equation in the decision variable.
- Step 4. Optimize the objective function either graphically or mathematically.