

CHAPTER - I

FACILITY LOCATION PROBLEMS ON NETWORKS

In the thesis we have investigated various problems of facility location such as Cent-Dian and problems of location with multiple objectives. Some of the solution procedures employed deal with fuzzy set theoretic considerations. In the present chapter we have first critically examined relevant investigations in facility location problems on networks. We have next discussed the relevant fuzzy set theoretic concepts as much as required for the investigations undertaken in the thesis.

1. State-of-the art survey of facility location problems on Networks:

(a) Introduction:

Facility location problems on networks are those in which facilities (sources) are to be located on a network in relation to the demand requests (destinations) on a network. Location of the facilities is studied usually according to the 'minimax' or 'minisum' optimality criterion or according to some other specified criterion or criteria.