

PART – A
UNIT – 1

PRINCIPLES OF TRANSPORTATION ENGINEERING: Importance of transportation, Different modes of transportation and comparison, Characteristics of road transport Jayakar committee recommendations, and implementation – Central Road Fund, Indian Roads Congress, Central Road Research Institute
04 Hrs.

INTRODUCTION:

Mobility is a basic human need. From the times immemorial, everyone travels either for food or leisure. A closely associated need is the transport of raw materials to a manufacturing unit or finished goods for consumption. Transportation fulfils these basic needs of humanity. Transportation plays a major role in the development of the human civilization.

Basic Definition: A facility consisting of the means and equipment necessary for the movement of passengers or goods. At its most basic, the term “transportation system” is used to refer to the equipment and logistics of transporting passengers and goods. It covers movement by all forms of transport, from cars and buses to boats, aircraft and even space travel. Transportation systems are employed in troop movement logistics and planning, as well as in running the local school bus service.

Function: The purpose of a transportation system is to coordinate the movement of people, goods and vehicles in order to utilize routes most efficiently. When implemented, transportation systems seek to reduce transport costs and improve delivery times through effective timetabling and route management. Periodic re-evaluations and the development of alternative routes allow for timely changes to the transportation system in order to maintain efficiency.

Features: A standard transportation system will usually feature multiple timetables designed to inform the user of where each vehicle in the fleet is expected to be at any given point in time. These timetables are developed alongside an array of route plans designed to coordinate vehicle movements in a way that prevents bottlenecks in any one location.

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