

* Transportation \Rightarrow design, manage, plan & build for moving people & goods from ① \rightarrow ②

Goods

great infrastructure

Industrialisation.

massive production of human.

Basic need, development of human.

\rightarrow growth of social, economic & culture of country

\rightarrow Mobility for food, leisure.

Safe, efficient & fast, affordable eco-friendly.

Importance \Rightarrow Availability of raw material.

Availability of goods to customer

enhance living standard.

during emergencies, natural disaster.

Help for employment.

Connect two country.

[Based on human demands & production & supply.]

Modes of Transportation

(1) Roadway

Car, bus, trucks, Auto, bikes etc.

movement of good & people. Cheaper.

\rightarrow door to door service

\rightarrow Short to medium distance

\rightarrow Suitable for urban & rural.

\rightarrow Slower for long distance.

(2) Rail way

trains on railway tracks
(Station for trains)

\rightarrow Fast & suitable for long distance

fixed routes & scheduled

\rightarrow Safe & reliable.

\rightarrow No door to door service.

(3) Water way (In good weather) uses boats, ships, marine. by river, canals, lakes or Sea (Ocean)

Used for heavy & bulky cargo for trade.

\rightarrow Slow, Requires ports.

(4) Airways

used for human & good transport.
uses → Airplane, helicopter
→ fastest. but expensive.
depend on weather.
need airports.

(5) Pipeline

for fluid like water, oil etc. gases etc.
for long distance.
continuous, efficient, safe,
no traffic congestion,
High installation cost.

Traffic & road safety

(A) Traffic signs → Communication b/w traffic engs. & road users.

(i) Mandatory
(Regulatory)



No parking



No horn



Speed must or must not do

Safety for other user



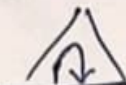
(ii) Cautionary
(warning)



left hand



Right hand.



U turn



Narrow bridge



pedestrian



Narrow road.

(Changes in road)
(Safety for user self)

(iii) Informative.
Give useful info.



Public telephone



First Aid.



Restaurant.



Hospital.

Petrol pump
or school.

* Causes of road accidents

- (1) Over speeding
- (2) Distracted driving
- (3) Drunken driving

- (4) Poor road condition.
- (5) weather condition.
- (6) vehicle defects.
- (7) Lack of road safety awareness.

* How to control road accidents

- (1) Strict Enforcements of traffic laws.
- (2) Awareness campaigns through media, schools & community programs.
- (3) Improving in road infrastructure.
- (4) Regular maintenance of vehicles.
- (5) Use of technology.
- (6) Stricter licensing process.
- (7) Promote use of Helmet & seat belt.
- (8) Availability of emergency services.