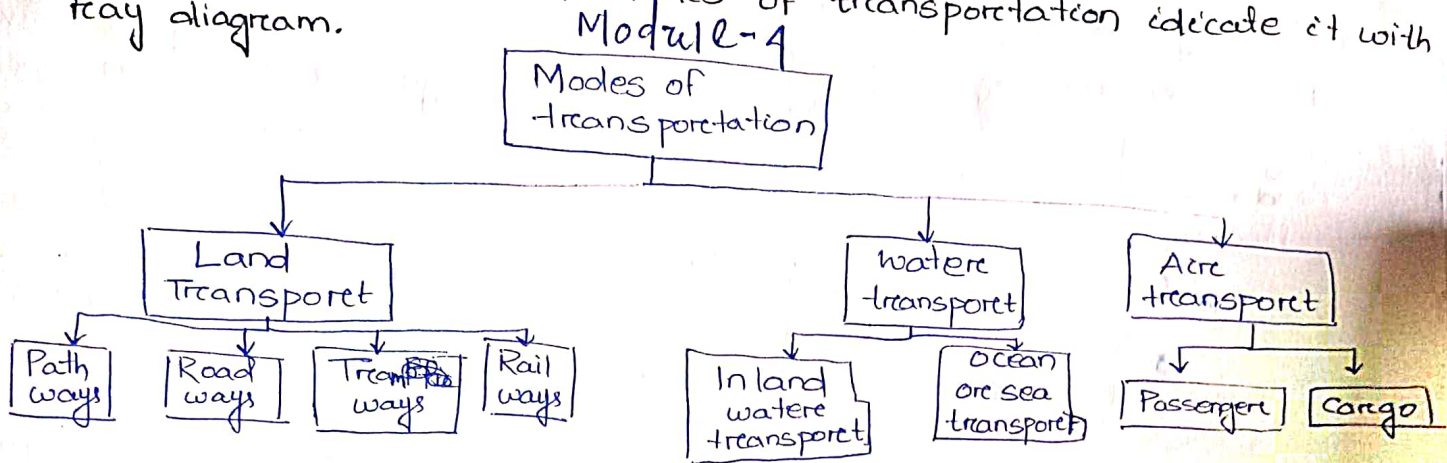


Module - IV

Transport, traffic and Urban Engineering

Q) What are the different modes of transportation indicate it with ray diagram.



Q) What do you mean by Planning and design aspects of transportation Engineering?

- The planning aspects of transportation engineering relate to elements of urban planning and involve technical forecasting decisions and political factors. Technical forecasting of passenger travel usually involves an urban transportation planning model, requiring the estimation of trip generation (how many trips for what purpose), trip distribution (destination choice, where is the traveler going), mode choice (what mode is being taken) and route assignment (which streets or routes are being used).
- Passenger trips are the focus of transportation engineering because they often represent the peak of demand on any transportation system.
- Before any planning occurs the Engineer must take what is known as an inventory of the area or if it is appropriate, the previous system in place. This inventory or data base must include information on (i) Population (ii) land use (iii) economic activity (iv) transportation facilities and services. (v) travel pattern and volume. These information help the engineer to complete forecasts of the future conditions of the system review.

Transport Design

Design might relate to :-

- (i) The physical ~~restoration~~ expansion of transport facilities, such as lane width or the number of lanes, for a roadway.
- (ii) The material and thickness used in pavements.
- (iii) Consideration of cost pricing and safety criteria.