

TRANSPORTATION

What is Transportation?

Transportation

- The process of moving people & goods from one location to another using some medium. its an essential supporting service to businesses.

What are the elements of transportation?

Way	
Mode	
Power	
Terminal	
Operations	

Transportation & Logistics

What are the qualities of a good transportation system?

- ✓ Speed
- ✓ Safety
- ✓ Cost
- ✓ Capacity
- ✓ Availability
- ✓ Standards
- ✓ Legality

What is the importance of transportation?

To Businesses

- ✓ To get raw materials needed at the required time
- ✓ To ensure finished goods are available at the right time
- ✓ To get the employees to workplace on time
- ✓ To develop & maintain business connections locally & internationally
- ✓ For the expansion of the market

To the Citizens

- ✓ To create job opportunities & sources of income
- ✓ To create & maintain social connections
- ✓ To receive products on time
- ✓ For recreational & entertainment purposes
- ✓ For research, exploration, & educational activities

Transportation & Logistics

To the Economy

- ✓ For the growth of employment
- ✓ For the growth of international relationship.
- ✓ For the growth of foreign trade
- ✓ For the growth in contribution to GDP
- ✓ For the growth & development of the nation's businesses

What are the factors considered by a businessman when selecting a suitable transportation method?

- ✓ Nature of the product
- ✓ Distance to travel
- ✓ Speed of the mode
- ✓ Safety of the method
- ✓ Capacity of transport
- ✓ Availability of modes & options
- ✓ Standards maintained
- ✓ Legality – Inline with law
- ✓ Convenience of the option
- ✓ Completeness – able to use till end of journey
- ✓ Frequency – number of times
- ✓ Dependability of the option

Transportation & Logistics

How can we classify transportation methods?

Transportation Methods			
Highway	Waterway	Airway	Others
+	+	+	+
+	+	+	+

What is Highway Transportation?

Highway Transportation

- This is a land based road network connecting many locations. The roads can be made of tar, concrete, gravel, bricks or any other means

What are the Government authorities responsible for highway transportation?

- ✓ Ministry of highways
- ✓ Ministry of transportation
- ✓ Road development authority
- ✓ Department of motor traffic
- ✓ Provincial councils

What are the advantages of Highway Transportation?

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Transportation & Logistics

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What are the disadvantages of Highway Transportation?

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What are the steps that can be taken to minimize or avoid traffic congestions on roads?

- ✓ Construction of fly-over bridges
- ✓ Construction of tunnels
- ✓ Expanding the roads by adding more lanes
- ✓ Setting up an efficient traffic light system
- ✓ Implement strict road rules
- ✓ Having separate entry & exist roads for congested cities
- ✓ Construction of large vehicle parks
- ✓ Limit the number of vehicle imports
- ✓ Introduce a luxury bus service to reduce the number of personal vehicles entering the city

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- ✓ Considering an internal waterway transport network
- ✓ Setting up a toll system to charge vehicles entering the city at peak hours
- ✓ Limit the number of heavy vehicles entering the city at peak hours

What are the steps taken at present to develop the highway transportation system in Sri Lanka?

- ✓ Construction of new road networks
- ✓ Expansion of the existing road networks
- ✓ Construction of fly-over bridges
- ✓ Construction of tunnels
- ✓ Expanding the traffic light system
- ✓ Development of bus terminals
- ✓ Increasing the number of busses in service
- ✓ Increasing facilities in busses in service
- ✓ Encouraging the use of hybrid & electric vehicles

What are the benefits to a nation from the construction of high-speed expressways?

- ✓ Saving of time wasted on roads
- ✓ Attraction of foreign investors
- ✓ Assists the industrialization process
- ✓ Business distribution services become efficient
- ✓ Reduces the level of traffic congestions
- ✓ Helps businesses to expand its activities

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- ✓ Saving of national money spent on fuel
- ✓ Increased overall national productivity

What is Railway Transportation?

Railway Transportation

- This is the transportation done by a mode using a track placed on a road as its way, where the mode would move on that given track.

What are the government authorities responsible for Railway Transportation?

- ✓ Ministry of transport & aviation
- ✓ Department of railways

What are the advantages of Railway Transportation?

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What are the disadvantages of Railway Transportation?

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Transportation & Logistics

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What are the problems faced by the railway department in Sri Lanka & what are the steps taken to improve railways?

Problems	Steps Taken
✓ Political & public issues with increasing ticket fares	✓ Construction & modification of new railway lines
✓ Frequent labour strikes & employee issues	✓ Connecting bus stands with railway stations
✓ Lack of development in Railway tracks	✓ Increase train travelling speed – high speed track
✓ Lack of maintenance in Railway tracks	✓ Introduce new railway engines & compartments
✓ Management inefficiencies of the Railway department	✓ Construction of dual lines
✓ Unwanted political interferences	✓ Increase standards of railway stations
✓ Lack of funds for improvement	✓ Modification & increase standards of trains
✓ Excess workforce	✓ Introduce an online or mobile ticketing system
✓ Outdated infrastructure	✓ Increased frequency of office trains
✓ Problems in department system	

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	✓ Development of railway signal system
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What is Waterway Transportation?

Waterway Transportation

• This is the transportation done by ships, vessels, boats etc using water as its way. The way can be internal or external where the mode would travel on water transporting passengers & goods.

What are the government authorities responsible for Waterway Transportation?

- ✓ Ministry of ports
- ✓ Sri Lanka ports authority
- ✓ Sri Lanka customs department
- ✓ Ceylon shipping company Ltd
- ✓ Trade & naval information service center

What are the advantages of Waterway Transportation?

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Transportation & Logistics

What are the disadvantages of Waterway Transportation?

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What is Airway Transportation?

Airway Transportation

- This is the transportation done by aircrafts using the airspace as its way. This is considered the fastest & the most popular especially at international transportations.

What are the government authorities responsible for Airway Transportation?

- ✓ Ministry of transport & aviation
- ✓ Airport & aviation services Ltd
- ✓ Sri Lankan Airlines

What are the advantages of Airway Transportation?

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What are the disadvantages of Airway Transportation?

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How the development in harbors & airports will benefit a nation?

- ✓ Increased forex earnings
- ✓ Creation of job opportunities
- ✓ Increased FDI's
- ✓ Increased efficiency in foreign trade
- ✓ Increased tourist arrivals
- ✓ Increased arrivals of larger vessels
- ✓ Country can become a tourist & maritime hub
- ✓ Increased government income through port tax

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What is Cableway Transportation?

Cableway Transportation

- This is a land based route network where two locations are connected by cables, where the mode would travel on this high capacity & heavy duty cable.

What are the advantages of Cableway Transportation?

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What are the disadvantages of Cableway Transportation?

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What is Pipeline Transportation (Hyper Loop Concept)?

Pipeline Transportation

- This is a system where the 2 terminals are connected by a pipeline where only goods are sent using pressure as the power.

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What are the advantages of Pipeline Transportation?

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What are the disadvantages of Pipeline Transportation?

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What is a Courier Service?

**Courier
Service**

- A delivery service provided by a Courier company which delivers messages, packages & mail & is known for their speed, security, tracking service & specialization

What are the advantages of Courier Service?

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What are the disadvantages of Courier Service?

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WAREHOUSING

What is Warehousing?

Warehousing

- Process of storing & preserving stocks from the time of purchasing or manufacturing until they are sold, used or distributed. It is a planned space for the storage & handling of goods & materials

What are the steps in the Warehousing process?

1. Receipt of stocks
2. Identification
3. Inspection
4. Verification
5. Ensuring quality
6. Putting away
7. Retrieving for issue

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What are the factors considered when selecting a Warehouse?

- ✓ Storage capacity
- ✓ Nature & type of items stored
- ✓ Nature & type of machinery & equipment needed
- ✓ Storage time period
- ✓ Needs for sorting, packing, labeling etc
- ✓ Road access & parking facilities
- ✓ Loading & unloading platforms
- ✓ Security of the surrounding

What are the factors considered when locating a Warehouse?

- ✓ Cost - Setup & Maintain
- ✓ Closeness / Proximity to the ports
- ✓ Building layout & flow
- ✓ Zoning & intensity of use
- ✓ Nature of materials
- ✓ Material holding & handling capabilities
- ✓ Legal factors & issues
- ✓ Level of security & protection & its assurance
- ✓ Availability of labour
- ✓ Floor weight capacity

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What are the factors considered when preparing the space layout in a warehouse?

- ✓ Machine placement & its maintenance
- ✓ Energy requirements to move stocks in, out & around
- ✓ Fuel & energy supply for the machinery & equipment
- ✓ Space for waste disposals
- ✓ Space for damaged & rejected stock items
- ✓ Rest room for warehouse employees
- ✓ Space for administration work office

What are the types of warehouses found?

- ✓ Private warehouse
- ✓ Public warehouse
- ✓ Automated warehouse
- ✓ Climate control warehouse
- ✓ Goods in transit warehouse
- ✓ Government warehouse

What are the ways of storing stocks in a warehouse?

Pallet Racking	
Block Stacking	

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Pallet Flow	
Push-back Racks	
Mezzanine	
Automated Storage	

What are the equipment used in a warehouse to move around stocks?

- ✓ Forklifts
- ✓ Pallet jacks
- ✓ Conveyor belts
- ✓ Forklift trucks

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What are the benefits of a well-organized warehouse?

- ✓ Safety of stocks, equipment, infrastructure & employees
- ✓ Smooth inflow & outflow of materials & other items
- ✓ Saves time increasing efficiency of operations
- ✓ Maximum usage of limited space available
- ✓ Increases overall productivity of the business
- ✓ Minimized wastages of stocks
- ✓ Easy to store, monitor, track & retrieve stocks
- ✓ Reduction in mistakes, theft, accidents etc

LOGISTICS

What is meant by Logistics?

Logistics

- The process of planning & implementation of the flow of goods, services & relevant information forwards & backwards from the point of origin to the point of consumption efficiently & effectively with the aim of ensuring the fulfilment of consumer needs & wants

What are the 2 basic types of processes in Logistics?

Inbound Logistics - The movements of raw material or finished goods from the point of purchase to the point of production

Outbound Logistics - The movement of supplying the products or relevant information from the end of the production process to the final consumers

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What are the types of Logistics?

Balanced Logistics System
Heavy Inbound Logistics System
Heavy Outbound Logistics System
Reverse Logistics System

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Why Logistics is very important in today's business world?

- ✓ Logistics is needed to provide the right product, in the right quantity, at the right time, to the right place, at the right price, in the right quality to the right consumer.
- ✓ Logistics is needed to do the activities such as stock control, product planning, purchasing of materials, transportation and warehousing systematically.
- ✓ Logistics is needed to ensure that all machines and all work centers are getting the required materials, in the required quantities at the required quality, at the required time.
- ✓ Logistics is needed to minimize cost and to maintain the supply chain continuously by conducting market research, planning requirements, making or buying decisions etc.

What are the advantages of Logistics?

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Questions – Past Papers

The following questions are from the past papers which should be answered as per the marks allocated for each;

Year	MCQ's	Other Questions
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
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2010		
2011		
2012		
2013		
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2015		
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2020		
Total		

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Dilon Anthony's