



1068CH07

LIFELINES OF NATIONAL ECONOMY



We use different materials and services in our daily life. Some of these are available in our immediate surroundings, while other requirements are met by bringing things from other places. Goods and services do not move from supply locales to demand locales on their own. The movement of these goods and services from their supply locations to demand locations necessitates the need for transport. Some people are engaged in facilitating these movements. These are known to be traders who make the products come to the consumers by transportation. Thus, the pace of development of a country depends upon the production of goods and services as well as their movement over space. Therefore, efficient means of transport are prerequisites for fast development.

Movement of these goods and services can be over three important domains of our earth i.e. land, water and air. Based on these, transport can also be classified into land, water and air transport.

the help of equally developed communication system. Therefore, transport, communication and trade are complementary to each other.

Today, India is well-linked with the rest of the world despite its vast size, diversity and linguistic and socio-cultural plurality. Railways, airways, waterways, newspapers, radio, television, cinema and internet, etc. have been contributing to its socio-economic progress in many ways. The trades from local to international levels have added to the vitality of its economy. It has enriched our life and added substantially to growing amenities and facilities for the comforts of life.

In this chapter, you will see how modern means of transport and communication serve as lifelines of our nation and its modern economy. It is thus, evident that a dense and efficient network of transport and communication is a prerequisite for local, national and global trade of today.

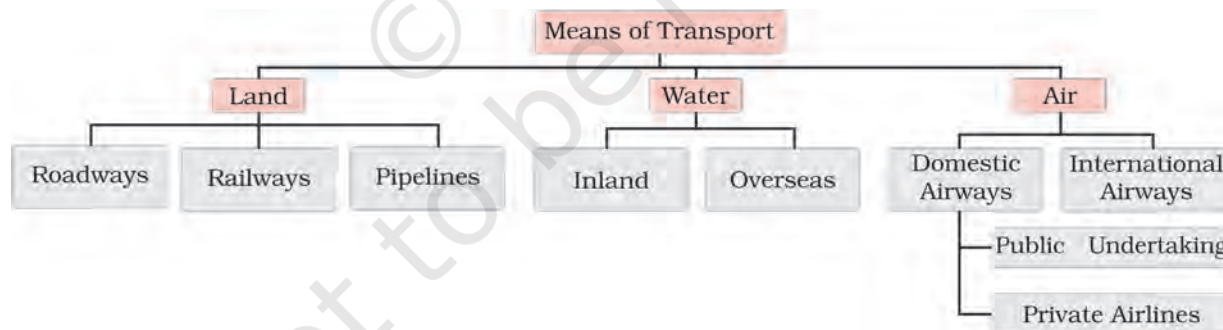


Fig. 7.1

For a long time, trade and transport were restricted to a limited space. With the development in science and technology, the area of influence of trade and transport expanded far and wide. Today, the world has been converted into a large village with the help of efficient and fast moving transport. Transport has been able to achieve this with

TRANSPORT

Roadways

India has one of the largest road networks in the world, aggregating to about 56 lakh km. In India, roadways have preceded railways. They still have an edge over railways in view of the ease with which they can be built and

maintained. The growing importance of road transport vis-à-vis rail transport is rooted in the following reasons; (a) construction cost of roads is much lower than that of railway lines, (b) roads can traverse comparatively more dissected and undulating topography, (c) roads can negotiate higher gradients of slopes and as such can traverse mountains such as the Himalayas, (d) road transport is economical in transportation of few persons and relatively smaller amount of goods over short distances, (e) it also provides door-to-door service, thus the cost of loading and unloading is much lower, (f) road transport is also used as a feeder to other modes of transport such as they provide a link between railway stations, air and sea ports.

In India, roads are classified in the following six classes according to their capacity. Look at the map of the National Highways and find out about the significant role played by these roads.

- **Golden Quadrilateral Super Highways:** The government has launched a major road development project linking Delhi-Kolkata-Chennai-Mumbai and Delhi by six-lane Super Highways. The North-South corridors linking Srinagar (Jammu & Kashmir) and Kanniyakumari (Tamil Nadu), and East-West Corridor connecting Silchar (Assam) and Porbander (Gujarat) are part of this project. The major objective of these Super Highways is to reduce the time and distance between the mega cities of India. These highway projects are being implemented by the National Highway Authority of India (NHAI).
- **National Highways:** National Highways link extreme parts of the country. These are the primary road systems and are laid and maintained by the Central Public Works Department (CPWD). A number of major National Highways run in North-South and East-West directions. The historical Sher-Shah Suri Marg is called National Highway No.1, between Delhi and Amritsar.



Fig.7.2: Ahmedabad- Vadodara Expressway

Activity

Collect information of National Highway numbers (old and new) from the website morth.nic.in/national-highway-details.

- **State Highways:** Roads linking a state capital with different district headquarters are known as State Highways. These roads are constructed and maintained by the State Public Works Department (PWD) in State and Union Territories.
- **District Roads:** These roads connect the district headquarters with other places of the district. These roads are maintained by the Zila Parishad.
- **Other Roads:** Rural roads, which link rural areas and villages with towns, are classified under this category. These roads received special impetus under the *Pradhan Mantri Grameen Sadak Yojana*. Under this scheme special provisions are made so that every village in the country is linked to a major town in the country by an all season motorable road.
- **Border Roads:** Apart from these, Border Roads Organisation a Government of India undertaking constructs and maintains roads in the bordering areas of the country. This organisation was established in 1960 for the development of the roads of strategic importance in the northern and north-eastern border areas. These roads have improved accessibility in areas of difficult terrain and have helped in the economic development of these area.





India: National Highways

LIFELINES OF NATIONAL ECONOMY

81



Do you Know?

The World's longest Highway tunnel-Atal Tunnel (9.02 Km) has been built by Border Road Organisation. This tunnel connects Manali to Lahul-Spiti valley throughout the year. Earlier the valley was cut off for about 6 months each year owing to heavy snowfall. The tunnel is built with ultra-modern specifications in the Pir Panjal range of Himalayas at an altitude of 3000 metres from the Mean Sea Level (MSL).

Source: <http://www.bro.gov.in/pagefimg.asp?imid=144,And PIBdelhi03October2020>



Fig. 7.3: Hilly Tracts



Fig. 7.4: Traffic on north-eastern border road (Arunachal Pradesh)

Roads can also be classified on the basis of the type of material used for their construction such as metalled and unmetalled roads. Metalled roads may be made of cement, concrete or even bitumen of coal, therefore,

and narrow. However, in recent years fast development of road network has taken place in different parts of the country

Railways

Railways are the principal mode of transportation for freight and passengers in India. Railways also make it possible for people to conduct multifarious activities like business, sightseeing, pilgrimage along with transportation of goods over longer distances. Apart from an important means of transport the Indian Railways have been a great integrating force for more than 150 years. Railways in India bind the economic life of the country as well as accelerate the development of the industry and agriculture.

The Indian Railways is the largest public sector undertaking in the country. The first train steamed off from Mumbai to Thane in 1853, covering a distance of 34 km.

The Indian Railway is now reorganised into 16 zones.

Activity

Find out the current Railway zones and their headquarters. Also locate the headquarters of Railway zones on the map of India.

The distribution pattern of the Railway network in the country has been largely influenced by physiographic, economic and administrative factors. The northern plains with their vast level land, high population density and rich agricultural resources provided the most favourable condition for their growth. However, a large number of rivers requiring construction of bridges across their wide beds posed some obstacles. In the hilly terrains of the peninsular region, railway tracts are laid through low hills, gaps or tunnels. The Himalayan mountainous regions too are unfavourable for the construction of railway lines due to high relief, sparse population and lack of economic opportunities. Likewise, it was difficult to lay railway lines on



Table 7.1: India: Railway Track

The Indian Railway network runs on multiple gauge operations extending over 68,442 km.

Gauge in metres	Route (Km)	Running Track (Km)	Total Track (Km.)
Broad Gauge (1.676)	63,491	89,521	1,17,560
Metre Gauge (1.000)	3,200	3,462	3,775
Narrow Gauge (0.762 and 0.610)	1,751	1,752	1,901
Total	68,442	94,735	1,23,236

Source: Railway Yearbook 2017–18, Ministry of Railways, Government of India.

Website: www.indianrailways.gov.in

the sandy plain of western Rajasthan, swamps of Gujarat, forested tracks of Madhya Pradesh, Chhattisgarh, Odisha and Jharkhand. The contiguous stretch of Sahyadri could be crossed only through gaps or passes (Ghats). In recent times, the development of the Konkan railway along the west coast has facilitated the movement of passengers and goods in this most important economic region of India. It has also faced a number of problem such as sinking of track in some stretches and landslides.

Today, the railways have become more important in our national economy than all other means of transport put together. However, rail transport suffers from certain problems as well. Many passengers travel without tickets. Thefts and damaging of railway property has not yet stopped completely. People stop the trains, pull the chain unnecessarily and this causes heavy damage to the railway. Think over it, how we can help our railway in running as per the scheduled time?

Pipelines

Pipeline transport network is a new arrival on the transportation map of India. In the past, these were used to transport water to cities and industries. Now, these are used for transporting crude oil, petroleum products and natural gas from oil and natural gas fields to refineries, fertilizer factories and big thermal power plants. Solids can also be transported through a pipeline when converted into slurry. The far inland locations of refineries like Barauni, Mathura, Panipat and gas based fertilizer plants could be thought of only because of pipelines.

Initial cost of laying pipelines is high but subsequent running costs are minimal. It rules out trans-shipment losses or delays.

There are three important networks of pipeline transportation in the country.

- From oil field in upper Assam to Kanpur (Uttar Pradesh), via Guwahati, Barauni and Allahabad. It has branches from Barauni to Haldia, via Rajbandh, Rajbandh to Maurigram and Guwahati to Siliguri.
- From Salaya in Gujarat to Jalandhar in Punjab, via Viramgam, Mathura, Delhi and Sonipat. It has branches to connect Koyali (near Vadodara, Gujarat) Chakshu and other places.
- Gas pipeline from Hazira in Gujarat connects Jagdishpur in Uttar Pradesh, via Vijaipur in Madhya Pradesh. It has branches to Kota in Rajasthan, Shahajahanpur, Babrala and other places in Uttar Pradesh.

Waterways

Since the ancient period, India was one of the seafaring countries. Its seamen sailed far and near, thus, carrying and spreading Indian commerce and culture. Waterways are the cheapest means of transport. They are most suitable for carrying heavy and bulky goods. It is a fuel-efficient and environment friendly mode of transport. India has inland navigation waterways of 14,500 km in length. Out of these only 5685 km are navigable by mechanised vessels. The following waterways have been declared as the National Waterways by the Government.





Activity

Railway line has been extended from Banihal to Baramulla in the Kashmir Valley. Locate these two towns on the map of India.





Fig. 7.5: Inland waterways widely used in north-eastern states

- The Ganga river between Allahabad and Haldia (1620 km)-N.W. No.1
- The Brahmaputra river between Sadiya and Dhubri (891 km)-N.W. No.2
- The West-Coast Canal in Kerala (Kottapurma-Kollam, Udyogamandal and Champakkara canals 205 km) – N.W. No.3
- Specified stretches of Godavari and Krishna rivers along with Kakinada Puducherry stretch of canals (1078 km) – N.W. No.4
- Specified stretches of river Brahmani along with Matai river, delta channels of Mahanadi and Brahmani rivers and East Coast Canal (588 km) – N.W. No.5

There are some other inland water ways on which substantial transportation takes place. These are Mandavi, Zuari and Cumberjua, Sunderbans, Barak and backwaters of Kerala.

Apart from these, India's trade with foreign countries is carried from the ports located along the coast. 95 per cent of the country's trade volume (68 per cent in terms of value) is moved by sea.

Major Sea Ports

With a long coastline of 7,516.6 km, India is dotted with 12 major and 200 notified non-majors (minor/intermediate) ports. These major ports handle 95 per cent of India's foreign trade.

Kandla in Kuchchh was the first port developed soon after Independence to ease the volume of trade on the Mumbai port, in the wake of loss of Karachi port to Pakistan after the Partition. Kandla also known as the

Deendayal Port, is a tidal port. It caters to the convenient handling of exports and imports of highly productive granary and industrial belt stretching across the states of Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan and Gujarat.



Fig. 7.6: Trucks being driven into the vessel at Mumbai port

Mumbai is the biggest port with a spacious natural and well-sheltered harbour. The Jawaharlal Nehru port was planned with a view to decongest the Mumbai port and serve as a hub port for this region. Marmagao port (Goa) is the premier iron ore exporting port of the country. This port accounts for about fifty per cent of India's iron ore export. New Mangalore port, located in Karnataka caters to the export of iron ore concentrates from Kudremukh mines. Kochchi is the extreme south-western port, located at the entrance of a lagoon with a natural harbour.



Fig. 7.7: Tanker discharging crude oil at New Mangalore port

Moving along the east coast, you would see the extreme south-eastern port of Tuticorin, in Tamil Nadu. This port has a natural harbour and rich hinterland. Thus, it has a flourishing trade handling of a large variety of cargoes to



even our neighbouring countries like Sri Lanka, Maldives, etc. and the coastal regions of India. Chennai is one of the oldest artificial ports of the country. It is ranked next to Mumbai in terms of the volume of trade and cargo. Vishakhapatnam is the deepest landlocked and well-protected port. This port was, originally, conceived as an outlet for iron ore exports. Paradwip port located in Odisha, specialises in the export of iron ore. Kolkata is an inland riverine port. This port serves a very large and rich hinterland of Ganga-Brahmaputra basin. Being a tidal port, it requires constant dredging of Hoogly. Haldia port was developed as a subsidiary port, in order to relieve growing pressure on the Kolkata port.



Fig. 7.8: Handling of oversize cargo at Tuticorin port

Airways

The air travel, today, is the fastest, most comfortable and prestigious mode of transport. It can cover very difficult terrains



Why is air travel preferred in the north-eastern states?

Fig. 7.9

like high mountains, dreary deserts, dense forests and also long oceanic stretches with great ease. Think of the north-eastern part of the country, marked with the presence of big rivers, dissected relief, dense forests and frequent floods and international frontiers, etc. in the absence of air transport. Air travel has made access easier.

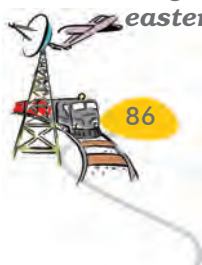
The air transport was nationalised in 1953. Air India provides domestic and international air services. Pawanhans Helicopters Ltd. provides helicopter services to Oil and Natural Gas Corporation in its off-shore operations, to inaccessible areas and difficult terrains like the north-eastern states and the interior parts of Jammu and Kashmir, Himachal Pradesh and Uttarakhand.

Find out the names of the countries connected by Air India.

Air travel is not within the reach of the common people. It is only in the north-eastern states that special provisions are made to extend the services to the common people.

Communication

Ever since humans appeared on the earth, they have used different means of communication. But, the pace of change, has been rapid in modern times. Long distance communication is far easier without physical movement of the communicator or receiver. Personal communication and mass communication including television, radio, press, films, etc. are the major means of communication in the country. The Indian postal network is the largest in the world. It handles parcels as well as personal written communications. Cards and envelopes are considered first-class mail and are airlifted between stations covering both land and air. The second-class mail includes book packets, registered newspapers and periodicals. They are carried by surface mail, covering land and water transport. To facilitate quick delivery of mails in large towns and cities, six mail channels have been introduced recently. They are called Rajdhani Channel, Metro Channel, Green Channel, Business Channel, Bulk Mail Channel and Periodical Channel.





India: Major Ports and Some International Airports



Do you know?

Digital India is an umbrella programme to prepare India for a knowledge based transformation. The focus of Digital India Programme is on being transformative to realise – IT (Indian Talent) + IT (Information Technology)=IT (India Tomorrow) and is on making technology central to enabling change.



Fig.7.10 : Emergency call box on NH-8

India has one of the largest telecom networks in Asia. Excluding urban places more than two-thirds of the villages in India have already been covered with Subscriber Trunk Dialling (STD) telephone facility. In order to strengthen the flow of information from the grassroot to the higher level, the government has made special provision to extend twenty-four hours STD facility to every village in the country. There is a uniform rate of STD facilities all over India. It has been made possible by integrating the development in space technology with communication technology.

Mass communication provides entertainment and creates awareness among people about various national programmes and policies. It includes radio, television, newspapers, magazines, books and films. All India Radio (Akashwani) broadcasts a variety of programmes in national, regional and local languages for various categories of people, spread over different parts of the country. Doordarshan, the national television channel

of India, is one of the largest terrestrial networks in the world. It broadcasts a variety of programmes from entertainment, educational to sports, etc. for people of different age groups.

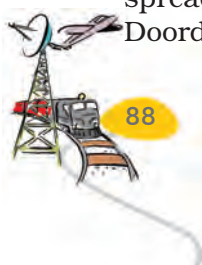
India publishes a large number of newspapers and periodicals annually. They are of different types depending upon their periodicity. Newspapers are published in about 100 languages and dialects. Did you know that the largest number of newspapers published in the country are in Hindi, followed by English and Urdu? India is the largest producer of feature films in the world. It produces short films; video feature films and video short films. The Central Board of Film Certification is the authority to certify both Indian and foreign films.

International Trade

The exchange of goods among people, states and countries is referred to as trade. The market is the place where such exchanges take place. Trade between two countries is called international trade. It may take place through sea, air or land routes. While local trade is carried in cities, towns and villages, state level trade is carried between two or more states. Advancement of international trade of a country is an index to its economic prosperity. It is, therefore, considered the economic barometer for a country.

As the resources are space bound, no country can survive without international trade. Export and import are the components of trade. The balance of trade of a country is the difference between its export and import. When the value of export exceeds the value of imports, it is called a favourable balance of trade. On the contrary, if the value of imports exceeds the value of exports, it is termed as unfavourable balance of trade.

India has trade relations with all the major trading blocks and all geographical regions of the world. The commodities exported from India to other countries include gems and jewellery, chemicals and related products, agriculture and allied products, etc.



The commodities imported to India include petroleum crude and products, gems and jewellery, chemicals and related products, base metals, electronic items, machinery, agriculture and allied products. India has emerged as a software giant at the international level and it is earning large foreign exchange through the export of information technology.

Tourism as a Trade

Tourism in India has grown substantially over the last three decades.

More than 15 million people are directly engaged in the tourism industry. Tourism also promotes national integration, provides support to local handicrafts and cultural pursuits. It also helps in the development of international understanding about our culture and heritage. Foreign tourists visit India for heritage tourism, eco tourism,

adventure tourism, cultural tourism, medical tourism and business tourism.

There is a vast potential for development of tourism in all parts of the country. Efforts are being made to promote different types of tourism for this upcoming industry.

Activity

On the map of India show important tourist places of your State/UT and its connectivity with other parts of the country by railways/roadways/airways.

Discuss in the class:

- What type of tourism may be developed in your state/UT and why?
- Which areas in your state/UT you find more attractive for development of tourism and why?
- How tourism may be helpful for the economic development of a region adopting sustainable development approach?



Kufri

बुलंद होती जा रही मेडिकल टूरिज्म क्षेत्र की सेहत

जलिया झा

दो अरब डॉलर से अधिक का है मेडिकल टूरिज्म उद्योग

यहाँ दिल्ली। पिछले कुछ वर्षों में चिकित्सा के लिए भारत आने वाले विदेशियों की संख्या में काफी तेज वृद्धि हुई है। विशेष रूप से केरल, म्यांमार और ऑस्ट्रेलिया जैसे देशों से बढ़ते चले जा रहे हैं। आंकड़े बताते हैं कि पिछले पाँच वर्षों में चिकित्सा पर्यटन की वृद्धि दर में 15 प्रतिशत से भी अधिक की वृद्धि हुई है। ऐसा अनुमान लगाया जा रहा है कि विश्वव्यापी दो अरब डॉलर के बाजार का मेडिकल टूरिज्म उद्योग 2012 तक भारत के सबसे चमकदार बने जाने वाले आईटी उद्योग के तुल्य के स्तर पर पहुँच जाएगा।

20 प्रतिशत कम है। यहाँ नहीं, अमरावती में वेद पत्ते की प्रतीक्षा सुखी भी अन्य चिकित्सा देशों की तुलना में भारत में काफी कम है। भारतीय चिकित्सा काकावर राज्य चिकित्सा और भारत में दूरस्थ का खर्च भी विदेशों में मिलता उनके अमरावती और होस्टलों की तुलना में काफी कम उतरता है। दरवा भी ऐसी वैसी जगह नहीं बॉक्स बेहरांगन और आवागमन होस्टलों में जहाँ उनके काफी अच्छी सुविधाएँ मुँहका कहाँ जाती हैं। जाकरवा जगती है कि विदेशियों के लिए भारत का सबसे अच्छा और सस्ता-अप के लिए खाले हैं। उन

का अस्पताल निताग होस्टलों के साथ काम होता है और केरल और एक्स्क्लूव कैसे पर्यटन के लिए मेडिकल स्पॉन्स पर अन्य छुट्टी मनाने का एक यात्रा क्षेत्र बर्ष पहले एक भारत में इलाज के खर्चे होगा। मेडिकल क्षेत्रों की संख्या केरल प्रविष्टता भी जबकि आज वह लगता 10 अंतिम तक पहुँच चुकी है। यहाँ आने वाले लोगों अधिकतर संयुक्त यूएसईड, दुबई/सिंगापूर, अरब मुल्क और किरिन के लोगों को होती है। वह एक दिलचस्प तथ्य है कि यहाँ इलाज करते डिस्टेंस या अमेरिका के रोगियों को यहाँ के मेडिकल के कर के तबन नहीं रखा गया, फिर यहाँ के सभी बेहत चिकित्सा सुविधाओं और यहाँ के बाजार यहाँ काफी संपन्न भी आते हैं। कुछ विदेशी तो यहाँ केवल अत्यधिक चिकित्सा के लिए आते हैं तो दूसरे तो यहाँ के बाजार यहाँ से ही दूरस्थ का



Arunachal Pradesh

India ranked world's 4th best holiday haven

TIMES NEWS NETWORK

New Delhi: India seems to have made its mark on the world travel map. Overseas holidayers and travellers have put India in the big league, ranking it as the fourth most attractive and satisfying holiday destination in the world. It stands ahead of several developed and traditional hot spots like US, France, Singapore, Thailand and South Africa.

According to the 2006 Conde Nast Readers' Trav-

Dream Destinations

1 Italy	6 France
2 New Zealand	7 Thailand
3 Australia	8 Spain
4 INDIA	9 Brazil
5 South Africa	10 Switzerland





Ecotourism along the mangrove forests in Goa

का अस्पताल निताग होस्टलों के साथ काम होता है और केरल और एक्स्क्लूव कैसे पर्यटन के लिए मेडिकल स्पॉन्स पर अन्य छुट्टी मनाने का एक यात्रा क्षेत्र बर्ष पहले एक भारत में इलाज के खर्चे होगा। मेडिकल क्षेत्रों की संख्या केरल प्रविष्टता भी जबकि आज वह लगता 10 अंतिम तक पहुँच चुकी है। यहाँ आने वाले लोगों अधिकतर संयुक्त यूएसईड, दुबई/सिंगापूर, अरब मुल्क और किरिन के लोगों को होती है। वह एक दिलचस्प तथ्य है कि यहाँ इलाज करते डिस्टेंस या अमेरिका के रोगियों को यहाँ के मेडिकल के कर के तबन नहीं रखा गया, फिर यहाँ के सभी बेहत चिकित्सा सुविधाओं और यहाँ के बाजार यहाँ काफी संपन्न भी आते हैं। कुछ विदेशी तो यहाँ केवल अत्यधिक चिकित्सा के लिए आते हैं तो दूसरे तो यहाँ के बाजार यहाँ से ही दूरस्थ का

Prepare a project on the heritage tourism in India.

*Source: Annual Report 2016-17, Ministry of Commerce and Industry, Government of India.



1. Multiple choice questions.

- (i) Which two of the following extreme locations are connected by the east-west corridor?
 - (a) Mumbai and Nagpur
 - (b) Silchar and Porbandar
 - (c) Mumbai and Kolkata
 - (d) Nagpur and Siligudi
- (ii) Which mode of transportation reduces trans-shipment losses and delays?
 - (a) Railways
 - (b) Roadways
 - (c) Pipeline
 - (d) Waterways
- (iii) Which one of the following states is not connected with the H.V.J. pipeline?
 - (a) Madhya Pradesh
 - (b) Maharashtra
 - (c) Gujarat
 - (d) Uttar Pradesh
- (iv) Which one of the following ports is the deepest land-locked and well-protected port along the east coast?
 - (a) Chennai
 - (b) Paradwip
 - (c) Tuticorin
 - (d) Vishakhapatnam
- (v) Which one of the following is the most important modes of transportation in India?
 - (a) Pipeline
 - (b) Railways
 - (c) Roadways
 - (d) Airways
- (vi) Which one of the following terms is used to describe trade between two or more countries?
 - (a) Internal trade
 - (b) International trade
 - (c) External trade
 - (d) Local trade

2. Answer the following questions in about 30 words.

- (i) State any three merits of roadways.
- (ii) Where and why is rail transport the most convenient means of transportation?
- (iii) What is the significance of the border roads?
- (iv) What is meant by trade? What is the difference between international and local trade?

3. Answer the following questions in about 120 words.

- (i) Why are the means of transportation and communication called the lifelines of a nation and its economy?
- (ii) Write a note on the changing nature of the international trade in the last fifteen years.

QUIZ DRIVE

1. Northern terminal of the North-south corridor.
2. The name of National Highway No.2.
3. The headquarter of the southern railway zone.
4. The rail gauge with a track width of 1.676 m.
5. The southern terminal of the National Highway No.7.
6. A Riverine Port.
7. Busiest railway junction in Northern India.



ACTIVITY

Start your search vertically, horizontally or diagonally and reach various destinations across the country!

S	H	E	R	S	H	A	H	S	U	R	I	M	A	R	G
A	R	T	P	R	N	X	E	L	A	T	A	D	L	A	Y
J	M	M	X	I	P	O	R	A	Y	M	P	G	H	T	X
Y	C	H	E	N	N	N	A	I	I	K	M	C	A	I	M
O	D	C	D	A	L	M	C	S	O	T	P	O	R	C	P
A	P	T	R	G	S	K	J	M	J	L	E	A	N	E	R
R	A	E	T	A	J	P	O	R	M	W	M	A	S	X	O
I	L	S	B	R	O	A	D	G	A	U	G	E	L	O	T
A	S	N	L	C	M	E	C	U	K	Z	M	A	A	J	E
L	M	U	G	H	A	L	S	A	R	A	I	B	S	N	A
G	O	E	T	V	R	A	Y	F	T	O	R	E	A	J	M
K	Q	A	I	P	M	N	Y	R	Y	A	Y	H	L	I	N
Q	K	O	L	K	A	T	A	E	U	I	T	W	B	E	A
N	I	T	N	K	D	E	M	O	U	R	P	N	P	J	D

