



Government of Karnataka

# SOCIAL SCIENCE

(Revised-2022)

8

EIGHTH STANDARD

2022

**KARNATAKA TEXT BOOK SOCIETY (R)**

100 Feet Ring Road, Banashankari, 3rd stage  
Bangalore-85.

## **PREFACE**

The Textbook Society, Karnataka has been engaged in producing new textbooks according to the new syllabi prepared which in turn are designed based on NCF – 2005 since June 2010. Textbooks are prepared in 11 languages; seven of them serve as the media of instruction. From standard 1 to 4 there is the EVS and 5th to 10th there are three core subjects namely mathematics, science and social science.

NCF – 2005 has a number of special features and they are:

- Connecting knowledge to life activities
- Learning to shift from rote methods
- Enriching the curriculum beyond textbooks
- Learning experiences for the construction of knowledge
- Making examinations flexible and integrating them with classroom experiences
- Caring concerns within the democratic policy of the country
- Make education relevant to the present and future needs.
- Softening the subject boundaries-integrated knowledge and the joy of learning.
- The child is the constructor of knowledge

The new books are produced based on three fundamental approaches namely.

Constructive approach, Spiral Approach and Integrated approach

The learner is encouraged to think, engage in activities, master skills and competencies. The materials presented in these books are integrated with values. The new books are not examination oriented in their nature. On the other hand they help the learner in the total development of his/her personality, thus help him/her become a healthy member of a healthy society and a productive citizen of this great country, India.

In Social science especially in standard V the first chapter deals with the historical, geographical, cultural and local study of the division in which learners live. Chapters on sociology, business studies and commerce are introduced in standard VIII as per the guidelines of NCF-2005. A lot of additional information is given through box items. Learners are encouraged to work towards construction of knowledge through assignments and projects. Learning load of memorizing dates has been reduced to the minimum. Life values have been integrated with content of each chapter.

The Textbook Society expresses grateful thanks to the chairpersons, writers, scrutinisers, artists, staff of DIETs and CTEs and the members of the Editorial Board and printers in helping the Text Book Society in producing these textbooks.

**Prof. G.S. Mudambadithaya**

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## **FOREWORD**

The text book which is being prepared for the high school students has come out differently and distinctively. This book has come out with unique features while compared with the previous texts that have appeared in the Text book. It should be noted that the 8th standard text book has incorporated Political Science, Sociology, Economics and Business Studies along with the traditional subjects like History and Geography as per the guidelines of NCF-2005.

We have made all the attempts to make this text easily understood and read comfortably, since this is a project of the Government oriented towards the common man. The present text has included the creative curriculum in order to discourage rote-learning in the system. We have designed the texts as it should correlate with the experiences of the students. We have deleted unnecessary dates and data that are burdensome to the students. Instead, the text gives attention to the historical understanding and the process. Besides, the text has provided ample information in order to understand contemporary affairs in the boxes throughout the text. We have endeavoured to project these issues as part of the experience of both the students and teachers. Members of the text book preparation committee dedicated themselves to prepare this text on international academic standards.

I acknowledge the members of the text book preparation committee for bringing this text successfully. I extend my gratitude to the Editorial Board, Translation Committee, Scrutinizers and Chief Advisors for their valuable suggestions in bringing out this text book.

I am grateful to Prof. G.S. Mudambadithaya, Officers and technical assistant of the Karnataka Text Book Society for their dedication in involving in the text book preparation project. I thank Dr. Shashikantha Koudur of NITK, Surathkal for his effort in editing the language in the text book.

**Prof. Vijay Poonacha Thambanda**  
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## About the Revision of Textbooks

Honourable Chief Minister Sri Siddaramaiah who is also the Finance Minister of Karnataka, in his response to the public opinion about the new textbooks from standard I to X, announced, in his 2014-15 budget speech of constituting an expert-committee, to look into the matter. He also spoke of the basic expectations there in, which the textbook experts should follow: "The textbooks should aim at inculcating social equality, moral values, development of personality, scientific temper, critical acumen, secularism and the sense of national commitment", he said.

Later, for the revision of the textbooks from class I to X, the Department of Education constituted twenty seven committees and passed an order on 24-11-2014. The committees so constituted were subject and class-wise and were in accordance with the standards prescribed. Teachers who are experts in matters of subjects and syllabi were in the committees.

There were already many complaints, and analysis about the textbooks. So, a freehand was given in the order dated 24-11-2014 to the responsible committees to examine and review text and even to prepare new text and revise if necessary. Eventually, a new order was passed on 19-9-2015 which also gave freedom even to re-write the textbooks if necessary. In the same order, it was said that the completely revised textbooks could be put to force from 2017-18 instead of 2016-17.

Many self inspired individuals and institutions, listing out the wrong information and mistakes there in the text, had sent them to the Education Minister and to the Textbook Society. They were rectified. Before rectification we had exchanged ideas by arranging debates. Discussions had taken place with Primary and Secondary Education Teachers' Associations. Questionnaires were administered among teachers to pool up opinions. Separate meeting were held with teachers, subject inspectors and DIET Principals. Analytical opinions had been collected. To the subject experts of science, social science, mathematics and languages, textbooks were sent in advance and later meeting were held for discussions. Women associations and science related organistation were also invited for discussions. Thus, on the basis of all inputs received from various sources, the textbooks have been revised where ever necessary.

Another very important aspect has to be shared here. We constituted three expert committees. They were constituted to make suggestions after making a comparative study of the texts of science, mathematics and social science subjects of central schools (NCERT), along with state textbooks. Thus, the state textbooks have been enriched basing on the comparative analysis and suggestions made by the experts. The state textbooks have been guarded not to go lower in standards than the textbooks of central schools. Besides, these textbooks have been examined along side with the textbooks of Andhra Pradesh, Kerala, Tamil Nadu and Maharashtra states.

Another clarification has to be given here. Whatever we have done in the committees is only revision, it is not the total preparation of the textbooks. Therefore, the structure of the already prepared textbooks have in no way been affected or distorted. They have only been revised in the background of gender equality, regional representation, national integrity, equality and social harmony. While doing so, the curriculum frames of both central and state have not been transgressed. Besides, the aspirations of the constitution are incorporated carefully. Further, the reviews of the committees were once given to higher expert committees for examination and their opinions have been inculcated into the textbooks.

Finally, we express our grateful thanks to those who strived in all those 27 committees with complete dedication and also to those who served in higher committees and experts of revised text also. At the same time, we thank all the supervising officers of the Textbook Society who sincerely worked hard in forming the committees and managed to see the task reach its logical completion. We thank all the members of the staff who co-operated in this venture. Our thanks are also due to the subject experts and to the associations who gave valuable suggestions.

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## **FOREWORD**

### **On review of text books**

The textbooks published in the year 2014 went under revision the same year for political reasons. The revised textbooks reached the students only in 2017-18 school year. The changes made in revised textbooks came under wide scrutiny and criticism. Since there was an all-round objection that such a textbook revision was done with an objective of propagation of a certain ideology that benefitted self-interests, side-lining education's core intention, the honourable Karnataka Government in 2021 formed a committee mandating to re-review such textbooks. The committee has reviewed in depth, such textbooks which had attracted objections, and has recommended certain changes. Today's children are tomorrow's nation, they say. The future of our society depends on what we teach the children of today in schools. The textbooks that students study must have healthy thoughts and concepts. It must not be spreading mutual distrust, hatred, neglect amongst the different class and communities of the society; should incite nationalism and patriotism. The textbooks should provide objective information about the past events of state and nation. They must introduce local culture, language and traditions to the students. Overall, the textbooks must make the students fine, responsible, conscious, open minded and honourable citizens. The textbook revision had to be made by bearing this responsibility in mind. We had to build a framework for ourselves for reviewing and revising the textbooks. Primarily, our intention was to ensure that the social science textbook

- (1) contained no content that was disrespectful towards any caste, religion, philosophy, community or individual
- (2) subjects to be presented in a systematic, chronological order
- (3) had to be made knowledge-bank instead of an information dump of unnecessary matters
- (4) had to be made bereft of any self-interest ideology
- (5) had to be devoid of half-truths, falsehoods, exaggerations, judgemental information and instead must present facts which have authoritative basis
- (6) had to contain all subjects with deserving representation
- (7) had to include historically neglected facts, based on their importance
- (8) had to be corrected for the errors, as far as possible.

At every stage of revision, we were cautious that social science textbooks have to make our students conscientious citizens who will have love, pride

about our nation, not create a community that has negligence and repulsion for a few castes, communities, languages and religions of this nation.

The 'best textbook' is an ideal state. Our intention is to walk towards such an ideal state. However, to create such a thing in exact sense is not possible. With this humbleness, we have completed re-reviewing the textbooks and present you the revised version. This is only a review, not a comprehensive recreation. The intent and form of the already created textbooks (2014) remain intact. The entire revision has happened following the state syllabus framework which itself is based on the national curriculum framework. In addition, the intent of the Constitution has been upheld. I am grateful to all my colleagues of the review committee who have finished this job in the best possible way. Also, thankful to all the officers and staff of the textbook association who cooperated in the smooth conducting of the committee's functions. This revision, we believe, will reflect the intent of the new National Education Policy and also become the starting point for the comprehensive revision of textbooks to come.

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# **HISTORY**

## **CHAPTER-1**

### **SOURCES**



#### **After studying this chapter you learn :**

- About the sources required to study history.
- The different types of sources of history.
- The importance of archaeological sources
- To understand the importance of Halmidi inscription.
- The oral sources also support the study of history.

#### **Why are sources necessary for writing of history?**

What are sources? Sources are the basic materials necessary for the construction of history. They give details of a particular period.

Sources are the essential ingredients for the construction of history. They are very important for understanding the past events. History can be compared to a human body. Sources are like the skeleton of the human body. It follows that without sources, there can be no construction of history. The kind of source used determines the kind of view we get about the history. This is the reason why there is no universal history. It is well known that there should be definite sources for all facts and events described in history. Sources can be classified into two groups.

1. Literary sources
2. Archaeological sources.

Literary sources are of two kinds.

1. Native Literature
2. Foreign Literature.

Archaeological sources are of three kinds

1. Inscriptions
2. Coins
3. Monuments



**Huien Tsang**

Literature produced by Indians is called native literature, and the sources comprising such literature are called native literary sources. Vishakadatta's 'Mudrarakshasa', Kalhana's 'Rajatarangini', Ashwagosha's 'Buddha Charita', Kautilya's 'Arthashastra', the 'Tripitikas' of Buddhist literature, Srivijaya's 'Kavirajamarga' are some of the literary productions worth mentioning.

The writings of foreign visitors, explorers and scholars comprise of foreign literature and such writings are called foreign literary sources. Megasthenes' Indica, HuienTsang's 'Si-yu-ki', Fa-hien's 'Gho-kho-ki', Ceylon's 'Deepavamsha' and 'Mahavamsha', the writings of Furneo Nuniz and the writings of Barbosa and Nicolo Conti who visited the Vijayanagar Empire are some examples of this kind of source.

**What are archaeological sources?** Do you know about them? Archaeological sources are the inscriptions, coins, monuments, pottery, and other artefacts that have been obtained during archaeological excavations.

### Study of Inscriptions

Inscriptions are the living fact-bearers of a particular period. They provide us information about religion, culture, economy, administration and other aspects of that period. The earliest inscription obtained in our country has been the inscription written by the Mauryan Emperor Ashoka. He got the inscription engraved on rocks and stone pillars. Such inscriptions are found in many places in India. These are mostly in Bramhi script of Prakrit language. Some inscriptions have been found in Greek, Armic and Kharoshti script too.

Ashoka's inscriptions have been found in Maski and Bramhagiri in Karnataka. The first inscription available in the Kannada language is the Halmidi inscription. This was written during the reign of King Kakutsavarma of the Kadamba dynasty.



**Halmidi Inscription**

## **Study of Coins**

Numismatics is the study of the evolution, nature and development of coins. Coins have been minted by using a variety of metals. These play a significant role in re-constructing history. They are valuable sources of information regarding the religion, culture, administration, social and economic aspects of the periods to which they belong.



**Coins**

## **Study of Monuments and Ruins**

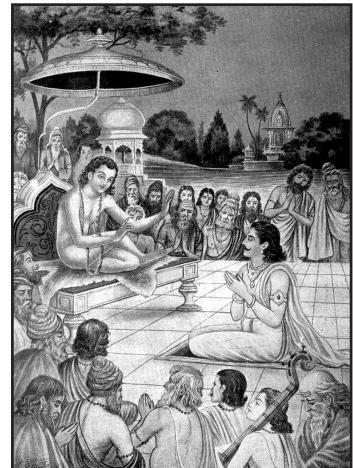
Stupas, basadis (Jain temples), temples, palaces, forts and ruins are the kinds of monuments which exist today. These monuments enable us to know about the civilization, technology, social and economic conditions of that period. They reflect the achievements of kings and administrators. Ashoka pillars, Ajanta and Ellora caves, the Elephanta caves, Badami, Aihole and Pattadakallu of Karnataka are evidences of India's glorious heritage.

Indian architecture is unique. Innumerable stupas, basadis, chaityas

and thousands of temples have emerged throughout India over the centuries. A study of these help us to know indirectly about the religious, political, social and economic life of that period.

## **Oral Sources**

Today, many oral sources are being used to understand the diverse Indian heritage. From time immemorial, human society has preserved its experiences and memories in the form of lyrics, poems and songs, they are passed on from generation to generation through oral communication. This tradition existed before the advent of writing. Indian history begins with this oral tradition. The



Sage Shuka narrating mahabharatha to Parikshit and the sages

Vedas survived as oral tradition for many generations after which they were recorded in written form.

## **Legends**

There are many legends related to individuals, events and customs in many parts of India. Legends are also referred to as Sthala-Puranas. Usually they do not provide direct information for the study of history. They reflect social beliefs. They also highlight the glory of certain individuals or the significance of a particular place. Generally we come across stala-puranas related to religious places.

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

1. The two kinds of literary sources are \_\_\_\_\_ and \_\_\_\_\_.
2. The literary source of Aswaghosha's is \_\_\_\_\_.
3. The first inscription found in the Kannada language is \_\_\_\_\_.

#### **II Answer the following questions in brief :**

4. What are sources?
5. Give two examples for native and foreign literature each.
6. What are archaeological sources? Explain with examples.

#### **III Activities :**

7. Discuss with your teacher how one event in history leads to another and forms a chain of events.
8. Visit a monument and collect information about it.
9. Collect antique coins.
10. Visit Archaeological Museum.

#### **IV Project :**

11. Collect information about coins and prepare a small project report on it.

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## CHAPTER-2

# BHARATHAVARSHA



### After studying this chapter you learn :

- About the physical features of India.
- India is both subcontinent and peninsula.
- To identify the neighbouring countries of India.
- About the living style of man in pre-historic period.
- About the stone ages of pre-historic period in India.

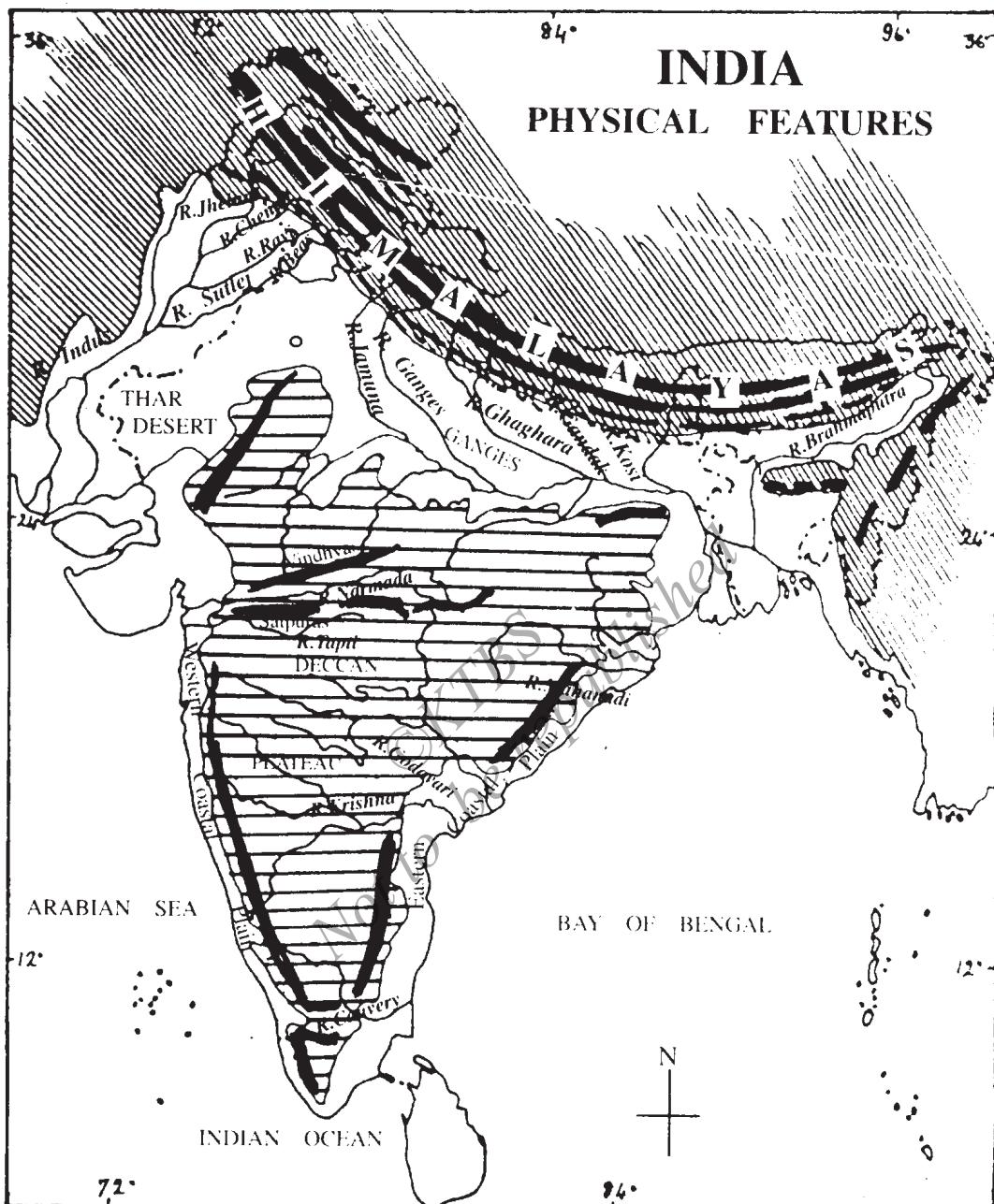
The geographical environment has influenced every country and race in the world. There is an intimate relationship between human life and the environment. Hence it is necessary to learn about the geographical environment in order to know about human history. India is a sub-continent occupying a huge area in the southern part of the Asian Continent. It is a peninsula, surrounded by water on three sides and land on one side. India shares its boundaries with Pakistan, Afghanistan, China, Nepal, Bhutan, Bangladesh and Myanmar. Earlier all these areas were together called as Bharathavarsha, Bharatha Khanda, Sindhudweepa, Akhandabharatha and Greater India too. It consists of 28 states and 9 union territories and one national capital region (Delhi).

India's geographical features comprise the Himalayan range of mountains in the North, the Indo-Gangetic plain, the Deccan Plateau in the South and the Coastal region. The snow-capped mountains in the North include some of the tallest mountain peaks in the world. They help to preserve the safety and security of India. There have been a few intrusions into ancient India from the northern Himalayan region. The attacks have been mainly from the north-western side through the valleys of Bolan and Khyber passes. The flat Indo-Gangetic plains are an extremely fertile area. The ancient civilizations of Indus Valley and Vedic period flourished here. Many

battles have been fought from time to time to establish control over this area. Usually, the dynasties that established control over this fertile gangetic plain also established empires in this area.



The Narmada river separates India into two - Malwa plateau or Central Highlands and the Deccan Plateau, in the south. The Mauryas and the Guptas ruled these two areas of ancient India. The Indian coastline is vast and stretches over 6,100 kms. The eastern coastline is called the Coromandel Coast & Utkal Coast, whereas the western coastline is



referred to as Konkan and Malabar coast. The numerous ports on this coastline had attracted the Romans from time immemorial. Foreign trade was carried on in those days only through sea-routes. Thus these ports developed and became the cause for the rise of powerful kingdoms in the South like the Pandyas, the Cheras and the Cholas.

The diversity in the Indian geographical environment has also influenced the lives of communities living here. Despite the cultural diversity, there exists a cultural unity which binds all these diversities. Unity in diversity is the essence of this culture.

### **The Prehistoric Age**

The period before the discovery of the art of writing is called the Prehistoric age. This is so because we do not find evidence to the linguistic development or to the use of script. We do not get any written records for the study of history of this period. Then how do we get to know about the people and their life in the prehistoric age? The scholars who study this period are called archaeologists. In this age, man was a nomad and indulged in hunting and food-gathering. Archaeologists have discovered some implements created and used by these people. Probably they used weapons made of stone, wood and bones. Among these, only weapons made of stone have survived today, providing us sources for study. Human beings in the prehistoric age used stone implements to peel the skin and separate the flesh and bones of animals, to scrape the bark of trees, and to cut fruits and roots. The people used to create handles out of bones and wood, and using them like spears and arrows, hunted animals. They used stones as axes to chop down trees and cut them up into logs. They might have used wood to build huts for themselves, or to make handles for their weapons.

### **Where did the Pre-historic man live?**

The relics of the hunting and food-gathering man are available in Bimbetka, Hunasagi and Kurnool in India. There are many other sites in which such relics have been found. Most of these sites have been discovered along the banks of rivers and lakes. Furthermore, since stone implements were essential for the survival of people of that age, they chose areas abundant with stone which could fulfil their needs. Areas where people used stones to create various implements have been considered as industrial sites.

How do we get to know about such industrial sites? Usually we get to see stone implements around rocky areas. People might have rejected some rocks as unsuitable for their implements. Heaps of

broken rock or stone-chips obtained during the creation of implements abound in such areas. It is possible that people lived for a long time in these places. These sites are called residential and industrial sites.

### **Awareness about fire**

Signs of ashes have been found in the caves of Kurnool. They reveal the awareness and the use of fire by the people of the Stone Age. Probably fire was used for various purposes to cook food, for lighting and safety from animals.

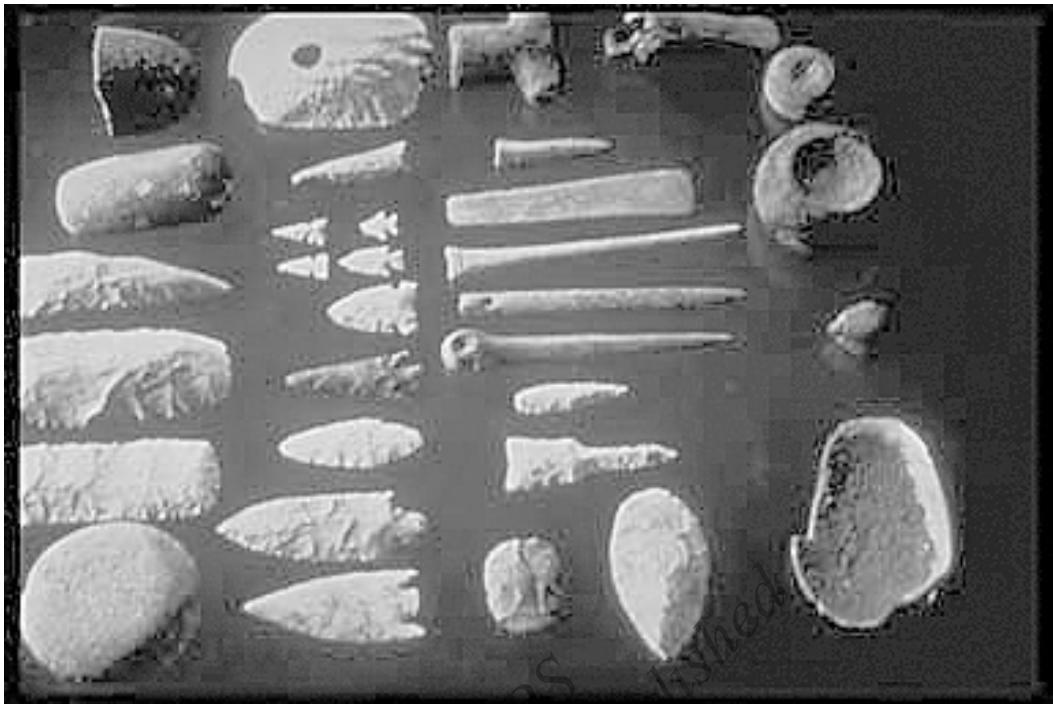
### **Drawings found in caves**

We get to see some drawings in many caves in which people lived in the Stone Age. Even today we can see the drawings done on the walls of caves and on rocks. Such cave-drawings can be seen in Madhya Pradesh, Uttar Pradesh and Karnataka. There are beautiful drawings of wild animals and of hunting.

### **The changing environment**

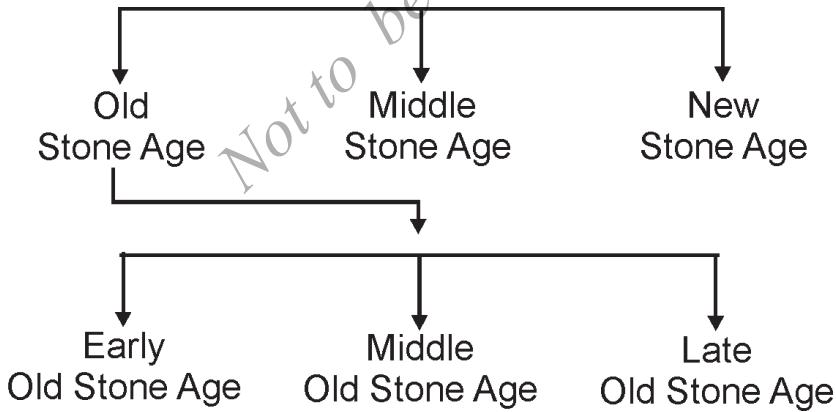
It is believed that 12,000 years ago a major change took place in the world's environment. The earth's temperature began to increase gradually. This led to the development of grasslands in many places. Birds and animals began to multiply in unprecedented numbers. Animals like deer, elks, goats, sheep and others flourished in these grasslands. Man who had been hunting animals, began to observe their nature, food habits and the way these animals breed. Over a period of time, he captured these animals and domesticated them. This was the way the practices of animal husbandry and dairy farming began. Man had by now, learnt to catch fish in streams and lakes. Human beings noticed in the meantime that some grain bearing grass had grown naturally. the grains and cereals like rice, wheat and barley were obtained from such plants. Man learnt to use them as food, gradually he learnt to grow them too.

Archaeologists refer to the age we discussed now, by different names. The age which prevailed 2 million years ago is the oldest period and is called the Old Stone Age, and it stretched over a period of 12,000 years. This long duration has been classified into three stages - the Early, Middle and Late Old Stone Ages.



**Implements**

**Diagram showing the stages of the Prehistoric age**



The period from 12,000 years to around 10,000 years is called the Middle Stone Age. The implements of this period are generally very small and hence they are called delicate stone implements. Man used to fashion handles from delicate stone for weapons made from bone and wood. He used those implements as axes and saws. Along with these tools, weapons of the old kind too continued to exist.

The New Stone Age began after 10,000 years. The stone weapons of this period are different from those of the earlier periods. These weapons were bright and had sharp blades. People of this age used grinding stones for grinding leaves and herbs and for powdering grains and cereals. Some pots and pans of this period have been found, a few of which have been decorated. Pots were used for storing grains. They were also used for cooking rice, wheat and other grains and cereals. People of this age had learnt to weave cloth.

### **EXERCISES**

**I Complete the following sentences by using suitable words in the blanks :**

1. Geographically, India is a \_\_\_\_\_.
2. Signs of ashes have been found in caves of \_\_\_\_\_.
3. The implements of the Middle Stone Age are called \_\_\_\_\_.

**II Answer to the following questions in brief :**

4. Describe briefly the physical features of India.
5. What are the valleys through which the attacks on India have taken place?
6. What is meant by 'Prehistoric Age'?
7. How did animal husbandry and dairy farming evolve?
8. The different periods of prehistory have been given various names by archaeologists. What are they?

**III Activity :**

9. Visit a cave along with your parents and learn more about it from your teacher.

\* \* \*

# CHAPTER-3

## SINDHU-SARASVATI CIVILIZATION



### After studying this chapter you learn :

- About ancient civilizations of India.
- To analyse urbanization, special features of the cities, town planning, life style and the decline of towns.
- About the development of vedic period, life style during vedic period and post vedic period.

### Sindhu-Sarasvati

Who is not aware of the Vedas? That, Rig-Veda is the world's oldest literature, is a matter of pride for Indians. Vedas encompass not just matters of bhakti, spirituality but several subjects that narrate the history of our nation. After studying the details and description of rivers, seas, mountains, the Earth, flora and fauna, lifestyle of people of those times, Scholars have penned the history of ancient India.

Of these numerous details, Sarasvati River is an important one. Sarasvati used to be a gigantic river. It contracted over the years due to natural causes and finally disappeared at around 2000 B.C.E. Based on this, historians have proved that the timeline of Rig-Veda is older than 3000 B.C.E. at the least. That is, 5,000 years before the current era!

Hundreds of antiquity sites, townships are discovered in the basin region of Sarasvati. Harappa, Mohenjo-Daro are some of the first ones to have been discovered. Experts found the traces of civilization for the first time in these ancient towns – all the reason why Harappa civilization is a more common term used to identify ancient Indian civilization. However, it is most apt to call it Sindhu-Sarasvati civilization instead. The region where rivers Sindhu, Vitasta (Jhelum), Asikni (Chenab), Parushni (Ravi), Vipasha (Beas), Shutudri (Sutlej) and Sarasvati flowed, itself is the homeland of this ancient civilization. Apart from these, the plains created by rivers Gangaa and Yamuna, Gujarat, Baluchistan, and other regions are also key for studying ancient India.

Sindhu-Sarasvati civilization period has been termed as post-Vedic period by the experts. By the turn of this period, all four Vedas had been formulated. The cultural aspects that can be seen in Atharva-Veda largely resemble the aspects found in Harappa and other towns.

### **Discovery of ancient towns**

The story of discovery of ancient bases of Sindhu-Sarasvati civilization is fascinating.

Around 1921, technicians at Punjab's Sindhu valley discovered some Harappan sites when they were laying rails. They appeared as mounds made of best quality of earthen bricks. They used these bricks as sleepers for rails. They found several more such buildings in the due course of time after which the archaeologists took up ground research. The archaeologists were convinced that those buildings were part of a town. There were similarities in the sites discovered after this with the ones discovered earlier – all around an existing town called Harappa. Hence, they were collectively termed as Harappa civilization. Even before this major discovery, in 1917, a major site was discovered in Kalibangan.

### **Town Planning**

Two or more divisions can be seen in Harappan towns. The western parts are smaller, but elevated. Archaeologists call it fort. The eastern parts are generally wide and low-lying. They are called villages. Every division had a wall of burnt clay bricks constructed around it. The bricks were laid in an inter-locking fashion which had ensured that such walls were stronger. The usage of burnt clay bricks indicates the advancement of the civilization.

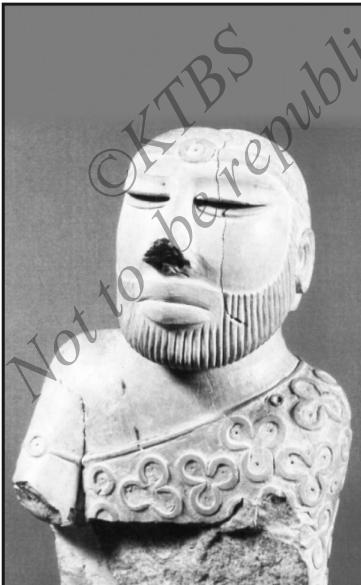
A ground-level tank can be seen constructed in another town Mohenjo-Daro. The experts have identified it as an open bath. Built with bricks, precautions have been taken to ensure the structure was leak-proof. Stairs are located at two sides of the tank which has rooms built all around. Perhaps, the water to this tank was supplied from a nearby well, and the water was drained out after usage. Prominent people of the town would be bathing in this bath, it is presumed.



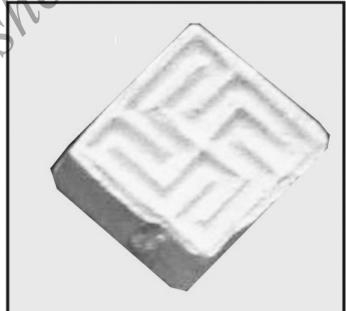
**Public bath at Mohenjo-Daro**



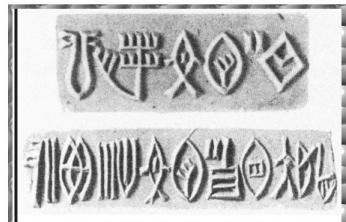
**Bronze Dancing Doll**



**Torso of a man**



**Swastik Sun Seal**



**Sindhu Script**

Fire places are found in the towns of Kalibangan and Lothal. Well-arranged grainaries can be seen in Harappa, Mohenjo-Daro and Lothal.

The low-lying space – the village – was the habitat part of the town. They were planned and built quite systematically – well planned

houses, roads and drains can be seen there. The houses were built with bricks and walls were strong; generally, the houses were of one or two storeys. The inner core space had rooms surrounding. The doors faced the street; None of the windows were street-facing, though. The houses had baths, some with wells for water supply. Water availability was abundant. Every household having its own bath was a big thing back then. Such information shows that the Sindhu-Sarasvati civilization population led a prosperous life.

Towns had internal drainage system, the drains of which were built with bricks and covered with stone slabs. The drains of houses were connected to the external drains. Domestic grey and black waters were led into the external drains through these connecting drains. Cover slabs had holes to enable regular maintenance. It is understood that separate officers were appointed for maintenance. The drainage system alone shows how superior the systematic thought process of the then town-planners, grievance-less execution and maintenance, and interest towards civil responsibilities were.



**Mother Goddess  
Teracota Idol**

Such well-equipped town construction is not seen in Egypt, Mesopotamia and other civilizations. Even in terms of physical expanse, the Sindhu-Sarasvati civilization was more advanced and bigger than the contemporary ones.

#### **Cultural details**

Apart from the buildings, the artefacts found are mostly metal and precious stones. Beads and seals are found in large quantities.



**Shivling found at  
Kalibangan**

Harappan beads had demand even in the distant Mesopotamia. The technique of drilling a diametrical hole through a bead was well practised by Harappans. Pots with various designs are also found. Bangles made of metals and shell material

are found in abundance along with female figurines adorning them in different patterns. Women wearing such bangles made of shell is believed to be sacred and practised even today across the sects. It is possible that there were smaller towns/ settlements built only for bangle-making. The township system shows a clear hierarchical arrangement – precious metals, stones and jewellery must have been worn by the administrative section while the commoners wore beads. Women used to wear vermillion on their foreheads, a practice which is alive even to this day.



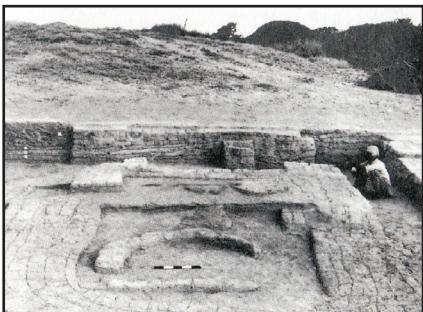
**Seals of Pashupathi, Bull and Unicorn**

The seals show still undeciphered script. They could engrave scripts on the seals even back then. Vrushabha (bull) is one of the most important figures found on seals of those times with the leaf of the sacred fig (peepul or ashvattha) tree being another prominent figure on the seals. Several idols with different yoga and namaskara postures are also seen. Vrushabha, Shiva's vehicle, also that stands as figura of dharma; the leaf of a fig tree, also known as yajnya-vrukha; yoga, one of the vaidika aspects – all these facts point at the continuation of vaidika tradition since the Sindhu-Sarasvati civilization times.

Weavers used to work with cotton, sometimes even silk. There were artists who worked on stones, ivory and such materials. Woollen blankets, wooden furniture, articles that enhanced the beauty of the buildings were in vogue. Bronze has been one of the important alloys found in ancient civilizations. The copper needed to create the alloy was available in Baluchistan, Rajasthan, etc. People had mastered the art of bronze making after centuries of effort. Such technology helped them create several items from hard tools to mirrors. The

metrology and measurements followed during this civilization match the descriptions in Kautilya's Arthashastra – which were in use till a few centuries back in our country.

A temple dedicated to Agni (sacred fire) worship is found in Banavali, Haryana. Platforms of worship are seen in Lothal, Kalibangan and other sites. Dholavira town was planned on measurements that were proportionate to the 'mahavedi-s' used in vaidika yaga-s. The same ratio is later seen in texts starting from vaidika band of Shatapatha Brahmana, Shulbasutra-s, etc. to the later encyclopaedia of Brihatsamhita – only goes on to show the normality in our traditions.



**Fire altar at Banavaali**

Literature, music, dance, painting, sculpture and other art forms were well established. Female figurines in dancing posture, drum and string instrument sculptures, several varieties of masks obtained during the exploration excavations confirm their deep interest in art. The famous dancing female figurine obtained in Mohenjo-Daro is

seen as the original form of Indian woman with its posture and the bangles that it wears. Toy carts, tops, whistles, etc. were in vogue, as toys for kids.

### **Farming and trading**

Sindhu-Sarasvati population were dependant on farming and trading. Wheat, barley and pulses were their primary crops. The bullock cart modelled and used back then is still in use in almost the same way. Hunting and fishing were also vastly practised. Cotton farming was done to manufacture textiles. Since several of the towns of the era were situated on the banks of rivers, it is obvious that they were experts in irrigation which helped in their farming. They were involved in rearing of cattle including bull, cow, buffalo and sheep, goat and poultry. Oxen were used to plough the fields. Commerce and trading were equally important to them. Urban centres used to trade with country side and foreign nations –Baluchistan, Sourashtra and Deccan regions were prominent among them. Several seals found in

Mesopotamia indicates the close ties that existed between the Sindhu-Sarasvati and Mesopotamian civilizations.

A huge construction is found in Lothal, Gujarat which is most probably a ship dockyard. Lothal was their primary centre of sea trade. Dholavira had best of practices of rain water management. A one-third of the town was reserved for this, experts opine.

It goes on to show how advanced the Sindhu-Sarasvati civilization was.

### **The decline**

Historians have ascribed several reasons for the decline of urban centres. Some claim, the drying up of rivers, drastic change in their course could be the reason; some others feel loss of forests could be reasons, because of long-term flooding of the region, which could also have forced the population from sites along Sindhu and in Western Punjab to migrate Eastwards and towards the South. However, the civilization continued until much later in Lothal, Gujarat which finally got infused into our culture.

All in all, the Sindhu-Sarasvati civilization is a great sign of Indian pride.

### **From nomadic life towards village settlement**

After the nomadic life stabilized, hutments and houses were built traces of which can still be seen. Pit houses are found in Burzahom, Kashmir. Those people used to build bore holes in ground and live underground to save themselves from harsh cold and wild animals. The underground bunker used to have steps for access. Clay pots are found inside and outside such bunkers. These were used for cooking either inside or outside the bunker based on the weather.

Mehrgarh is situated on the way to Iran, near the fertile plains of Bolan pass. People here cultivated barley and wheat and raised sheep and goats. Mehrgarh is the first of the villages found from this era. The people here used to live in well built houses, some of which had four or more rooms. Apart from fossils of animals, many graves are also found. It appears that animals were also buried along with humans.

## **Vedic society**

Vedic times had brahmana and kshatriya varnas based on several characteristics and lifestyles. Those were mainly into learning and teaching were brahmanas while the ones who were responsible for the protection and nurturing of society were kshatriyas. The common people were called 'vishah'. Vaishyas were those who were into trade and commerce; shudras were those who were into physical work at every level. There were sabha and samiti in administrative system to provide guidance. Sabha had several people representatives while samiti had specifically a few experts. The priest, army general and village head and others used to assist in administration. The priest used to be the king's guru and guide. Army generals used to be involved much into administration and defence affairs. Village heads used to look after the well-being of people in villages which were the basic blocks of administration.

Those were the times when there were tribes by name Bharata, Puru, Anu, Druhyu, Turvasha and Yadu. They used to fight over protection of cattle – the key wealth of those times. These fights were helped by usage of horses. Well cultured, respected people were addressed as Arya. The word arya indicates no tribe but all of Indians. A group of selfish traders called pani used to accumulate wealth unethically and used to fight to protect it too.

## **Arya-Dravida Division**

In the later half of nineteenth century, the British resorted to divide and rule Indians on the basis of caste and religion. Arya-Dravida division was created for the sake of it. Christian Missionaries first proposed and propagated that the word Dravida was indicative of a tribe. The later historians kept amplifying the idea. However, there are no evidences to claim that Arya and Dravida were specific tribes. The theory of Aryans having come to India from outside has been proved false. The architect of Indian Constitution, Dr. B R Ambedkar also has strongly condemned the Aryan migration theory.

## **EXERCISES**

### **I Answer the below questions in one sentence.**

1. How old is Rig-Veda as on today?
2. Which are the sapta-Sindhu rivers?
3. In which year, was Kalibangan region discovered?
4. Which year were the ancient civilization traces found in Harappa?
5. What are the symbols/ pictures found on the seals of Sindhu civilization?
6. Which town was the primary centre for sea trade?
7. List out the tribes of Vedic period.
8. Which site had the system of rain water harvesting?
9. Who has said that Aryan migration theory is wrong?
10. The dimensions of towns of Sindhu-Sarasvati civilization match the mentions of which literary work?

### **II Answer the below questions in three-four sentences.**

11. How were the traces of Sindhu-Sarasvati civilization found?
12. What are the materials/ items found during the archaeological excavation of Sindhu-Sarasvati sites?
13. Explain the construct of baths of this civilization.
14. Which alloys were in use in this civilization? What are their traces?
15. Who created the myth of Arya-Dravida?

### **III Answer the below questions in seven-eight sentences.**

16. How was the township construction done in Sindhu-Sarasvati civilization?
17. Sindhu-Sarasvati civilization seals show the continuity of vaidika tradition. Explain how.
18. How was the social system during the vedic age?
19. How were the farming and trading practices in vedic age?

\* \* \*

# **CHAPTER-4**

## **PROMINENT CIVILIZATIONS OF THE WORLD**



### **After studying this chapter you learn :**

- The great civilizations of the world - Egypt, Mesopotamia and China.
- Art, architecture and life style of different civilizations.
- The development of Greek civilization and their contributions to world culture.
- The development of Roman civilization and their contributions.
- Ancient columbian civilization in America Maya, Aztecs and Inca.

Many other civilizations flourished in various parts of the world at the time of Indus Valley Civilization. We can see the Egyptian civilization, Mesopotamian civilization and Chinese civilization in Asia and Africa.

### **The Egyptian Civilization**

Generally all civilizations have originated in river valleys. The Egyptian civilization could take birth due to the presence of the river Nile. The relics obtained here reveal the grandeur of Egypt. Huge pyramids, sculptures, temples and the inscriptions in these temples tell us a lot about Egyptian culture and history.

### **The Contribution of Egyptians**

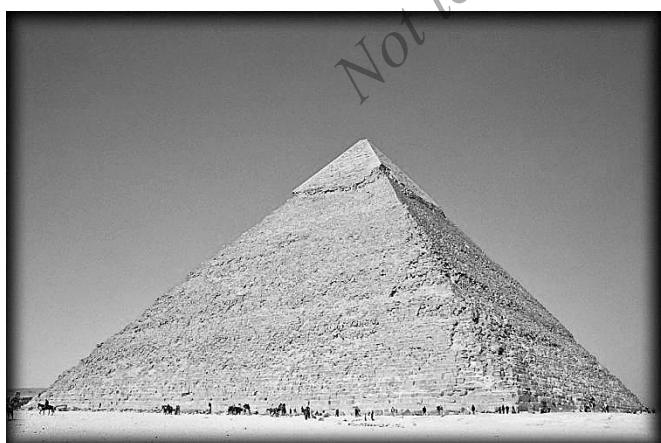
The Egyptians were expert farmers. They knew a lot about irrigation. They had built temples. They invented the calendar which has helped us to measure time. More than anything else, they had mastered the art of writing. It was a symbolic language. It consists of small drawings and has been called hieroglyphics (sacred writings).

### **The Nile Valley**

Every rainy season, the Nile river would transform the Nile valley into a huge lake. After the valley dried up in summer, a fertile layer of clay soil would form the grazing field and adjacent agricultural lands.

The work that would need the labour of hundreds of people, was being done by the kind river all alone. This fertile land provided food for the population of the first town in the area. Not all agricultural regions were within the valley. Hence it was through small canals and wells that they were responsible for the development of a complex system of irrigation through out the land.

The prosperous, wealthy Egyptian peasants and citizens in their leisure engaged themselves in the creation of artistic works. The role of priest was created to interpret nature and explain it. The priests were scholars and shouldered the responsibility of protecting written documents. They believed in life after death. They believed that man had to give an account of his deeds on earth to Osiris, the most powerful God of Life after Death. The priests considered that life on earth was temporary and was needed only to prepare for the next life. Thus the whole of the Nile valley was reserved for the dead. The dead body would be smeared with various chemicals and wrapped with a thin cloth. The entire body was in this way preserved. The body protected thus was called 'mummy'. It would be kept in a specially designed coffin. The grave was considered the true 'place' for an Egyptian. Hence all around the dead body, items needed for daily use and small dolls of a cook and barber would be kept to fulfil all future needs.



**Pyramid**

In the beginning, graves were created by carving into boulders on the hills. As the Egyptians moved north, they had to construct graves in the desert itself. Tall towers were built on these graves using huge blocks of stone in order to protect the eternal sleep of the dead. Kings and wealthy

people vied with each other to build taller and taller towers.

The Greeks called these structures 'Pyramids'. The kings of Egypt were called 'Pharaohs'. 'Pharaoh' means 'a person who lives in a palatial house'. The peasants who had accepted the rule of powerful Osiris, now accepted the rule of Pharaohs too.

After an independent, prosperous life for twenty centuries, Egypt was ruled over by an Arabian shepherd tribe called Hyksos which attacked it and after defeating it, ruled for 500 years. They looted the wealth of the natives, and hence did not become popular. The Jews who came wandering through the deserts in search of shelter were also hated by the people of Egypt. By cooperating with the foreign rule the Jews even assisted them in collecting taxes and in administration.

In 1700 B.C.E. the people of Thebes rose in revolt against the foreigners. After a prolonged conflict, they succeeded in driving Hyksos out of their country. Egypt became free once again. After a thousand years, it came under the rule of Sardanapalus of Assyria.

The Persian Emperor Cambyses occupied Egypt in the 6<sup>th</sup> Century B.C.E. Alexander occupied Persia in the 4<sup>th</sup> Century B.C.E. Egypt became a province of Macedonia. One of Alexander's military generals declared himself the King of Egypt and established the dynasty of the Ptolemies. He founded the city of Alexandria. At last came the Romans in 39 B.C.E. The last Egyptian queen, Cleopatra, tried her best to save her country. It was said that the Romans feared her beauty more than her troops. However, in 30 B.C.E., Caesar's successor, his relative, Augustus, did not succumb to her beauty like his uncle, but defeated her army, though he spared her life. When he planned to carry her away along with the other spoils of the battle, Cleopatra consumed poison and ended her life. From then onwards, Egypt became a province of Rome.

### **The Mesopotamian Civilization**

Mesopotamia is an area which lies in a valley between two rivers. Many of the places described in the Old Testament can be seen here. The land which inspires awe and fascination is called the 'Land between the rivers' or 'Mesopotamia' by the Greeks. The two rivers, Euphrates and Tigris, have made this West Asian barren land very fertile. It was the fertility of this area that attracted the people to it.

Since food crops could be grown with little effort, the northern hilly tribes and the southern nomadic tribes of the desert tried to establish control over this area. The rivalry between these tribes led to number of endless conflicts. However, in the midst of these conflicts, there emerged a civilization of strong and brave race. The Sumerians were the first ones to evolve a system of writing in Mesopotamia. For 30 centuries all those who entered the fertile valley – Sumerians, Babylonians, Assyrians and Chaldeans – used this system of writing, which was called Cuneiform.

The most important area of this civilization was the southern part of the valley between the Euphrates and Tigris rivers. From olden times, this area had been referred to as Babylonia. The northern part of Babylonia was called Akhad and the southern part Sumer. The northern part of Mesopotamia was known as Assyria.

### **The Hanging Gardens of Babylonia**

The legendary Hanging Gardens were created on the banks of the river Euphrates around 7th Century B.C.E. This was one of the seven wonders of the Old World. But it is surprising to note that the Babylonian cuneiform records which make a mention of the city, its palaces and its walls, are totally silent about the Hanging Gardens. Most of the scholars are of the view that King Nebuchadnezzar II was the one who created the gardens.

Nebuchadnezzar's wife Amitis was from Mead. It is said that Nebuchadnezzar got the gardens built in order to console his wife who was missing the beautiful environment of hills, trees and flowers of her motherland. Some scholars Opine that the gardens were created by Assyrian queen Sammu-Ramat. In reality, the gardens did not hang in the air. The trees and bushes were grown at different levels (or terraced land) of the ziggurats. When the branches hung at different levels and swayed, they gave the onlooker an impression of being a hanging garden. The Euphrates provided the water for these gardens.

The history of Mesopotamia is a story of end less hatred and conflict. The Sumerians, the hilly tribe from the north, were the first to come

here. They who used to worship their gods on top of the hills, after coming to the plains, built artificial hills and established their places of worship there. These were called Ziggurat. The Jews called these the Towers of Babel.



**Ziggurat**

### **The Law Codes of Hammurabi**

The main source of the law codes of Hammurabi are the rock edicts found in 1901. Today this has been kept in 'The Louvre' museum of Paris. Hammurabi's law enforced the logic of 'An eye for an eye and a tooth for a tooth'. Hammurabi's Law Codes are one among the most ancient of the codes available to us. They were probably written to protect the rights of all sections of Babylonian society, especially women and slaves.

The Sumerians had entered Mesopotamia in 4000 B.C.E. Later they were overpowered by the Akkadians, one of the tribes of the Arabian desert. These are known as Semites. After a thousand years, these Akkadians came to be ruled over by the Amorites, another Semitic tribe. The most famous king of the Amorites was Hammurabi. He got built a fabulous palace for himself in Babylonia. He framed the codes of justice and made Babylonia to be considered the best-administered kingdom in the whole of the Old World. The Hittites who came later, occupied the valley and destroyed all that they could not carry away. These Hittites were defeated by the Assyrians who were the followers of 'Ashura', the desert God. The Assyrians occupied

the whole of West Asia and Egypt till about 7<sup>th</sup> Century B.C.E., and collected taxes from all the people there. Another Semitic tribe, the Chaldeans, re-established Babylonia in the 7<sup>th</sup> Century B.C.E. and developed it into a prominent capital of that time. Nebuchadnezzar was the greatest king among them. He encouraged the study of science. But the Chaldeans came under the attack of the Persians in the 6<sup>th</sup> Century B.C.E. Two hundred years later, Alexander transformed this place of the Semitic peoples into a Greek province. After the rulers of the Romans and Turks who followed Alexander, this civilization declined and turned into a wilderness.

### **The Chinese Civilization**

It is a special feature of all ancient civilizations that they were established on river valleys. The Chinese civilization was no exception to this. But the river which led to the establishment of the Chinese civilization was known as 'China's Sorrow'. This was the Hwang Ho river. During the floods this river changed its course in an unpredictable manner and inundated houses and agricultural lands. It would render all the canals useless. This was the reason the people of that area referred to it as the 'Symbol of Sorrow'.

According to excavations, the first ruling family of the Chinese civilization was the Shang dynasty. It ruled in the period between the 18<sup>th</sup> century B.C.E. and the 12<sup>th</sup> century B.C.E. Under the rule of this dynasty, the people had developed a wonderful culture by the 14<sup>th</sup> century B.C.E. The Shang dynasty was overpowered by the neighbouring Chau dynasty. The Chau dynasty continued the good traditions of the Shang culture and ruled till 250 B.C.E.

In the Chou dynasty there was a section of officials below the kings. The king allotted portions of land to the officials. In return for that, the officials supported the king during battles. In the social stratification, the communities in the next level were the merchants and craftsmen. Apart from them we can find a great majority of peasants as well. In the lowest strata of social hierarchy were the slaves. The prisoners of war were made slaves by the kings.

## The Great Wall of China



*The Chinese Empire consisted of many small provinces. Seven big states were created bringing these smaller provinces under them. Every state that was created thus, constructed a wall along its boundary for protection. Emperor Qin Shihuangti ordered that the walls of the northern Chinese states be connected. This enabled the northern walls to ward off the attacks of invaders from the north. The construction of the great wall began in the 7th century B.C.E. and continued till the 16th century. The worn-out parts were repaired and strengthened. When the work was completed it stretched to more than 5000 kilometers. It is one of the seven wonders of the world.*

The Shang kings spent quite an amount of time in conquests and battles. Hence the army was in prominence. The soldier enjoyed a dignified place in society. Soldiers wore bronze helmets and metal armours. The bronze daggers, axes, bows and iron-tipped arrows which they used have been found. The people of the Shang dynasty depended on agriculture. They had a well-organized system of irrigation. They used to grow plenty of rice.

## **Porcelain**

It is believed that porcelain originated in China. Semi-porcelain objects were in use from 1600 B.C.E. By the time of the reign of the Han dynasty (200 B.C.E.), glazed porcelain had been developed. It had developed into an exotic art. The ancient Chinese used to bury their dead along with porcelain pots, animals and the objects loved most during their lives.

The Chinese used to wear thin cotton dresses. They used silk too, and engaged in silkworm-rearing. Silk-manufacturing was a prominent industry. The Chinese used to make excellent pots, and had learnt to make various objects from porcelain. It was a custom of the Chinese to worship their ancestors. They believed that a dead man became a spirit and that the spirit had special powers. The dead body was buried along with various wooden articles, pots, bronze vessels and other objects. The tombs of kings used to be quite large. The Chinese tradition of writing began with pictures and got transformed into an ideographic script. Writing on silk and bamboo slips. Porcelain and the Great Wall are the exceptional contributions of this culture.

## **Greek Civilization**

The Greeks came from the north to the region of the Aegean sea. These tribals who were mainly shepherds, came in search of grasslands. Every group which came in this manner had a distinctive name: the Acheans, the Ionians and the Dorians. These people called themselves Hellenese or the Greeks. The Greeks originally belonged to tribes. There used to be a king looking after many tribes. The people used to engage in agriculture and animal-husbandry. They also used to engage in making pots, swords and ornaments. Trade was through barter system. Battles and conquests formed adventurous activities of their lives. The Greeks believed that their Gods lived on Mount Olympus. They prayed for good harvests and success in their various activities. There were no priests among the Greeks. The king prayed on behalf of all the people.

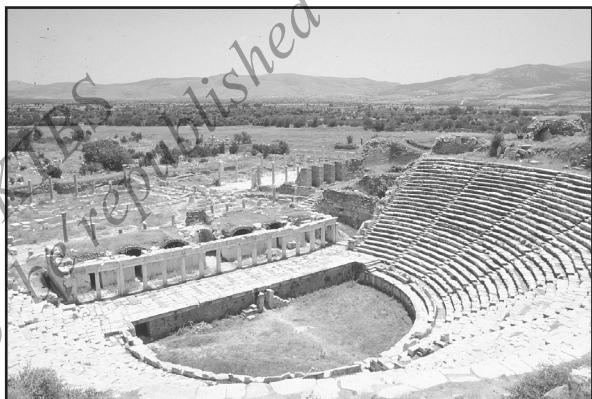
## Alexander

He was the king of Macedonia in Greece. In his short lived life, he set out to conquer the whole world. He was successful in building a huge empire. He defeated the Persian army and advanced towards India. Aristotle, one of the greatest scholars of Greece, was his teacher. After fighting on the Indian borders while on his return to Greece, Alexander died at Babylon in 323 B.C.E.

Slavery was practised in Greece. This enabled the Greeks to enjoy leisure time and engage in various arts and luxury. Their Olympic Games were popular games played once every four years. Importance was given to different arts in Greece.

## Roman Civilization

We can see the relics of ancient Roman civilization in present-day Italy. The original inhabitants of Italy were the people of North Africa, Spain and France. They migrated to Italy around 4000 years ago. After some time, the Greeks and Etruscans came and settled here. The Italians are the descendants of these people. The Italians learnt the language, religious beliefs and art from the Greeks.



**Amphitheatre**

Rome was under the rule of a monarchy. The Romans had 'Assembly' and a 'Senate', as two political advisory institutions. The Assembly was made up of all middle-aged men, whereas the Senate was an elite institution which was very influential. The Senate had the power to reject the proposals of the Assembly and the king. In the 6<sup>th</sup> century B.C.E., monarchy was abolished and a republic was established. Around 3<sup>rd</sup> century B.C.E. the administration of the whole of Italy came under the republican states. Even under the Roman republic, the Senate and the Assembly continued as advisory

institutions. The members of these institutions headed the armies during war. They enforced the law and dispensed justice.

There were two classes in the Roman society: the Patricians and the Plebians. The Patricians were the elite in society. They were land-owners and formed the upper class. It is they who controlled the Senate. The Plebians were the common people. They were the ordinary workers, small land-owners, artisans, small traders and soldiers. Their rights were limited. They were meant to pay taxes, and to undergo punishment. The decisions taken by the Council and the Senate regarding the Plebians could be rejected by the Tribunes. In the 5<sup>th</sup> century B. C. the Plebians rebelled against this system. As a result, the Patricians granted them some concessions. Thus the Plebians got the right to choose the members of the Tribunes. It was around this time that a rule-based on 'Roman law' was established. This provided awareness over their rights and learnt to oppose the violation of their rights.

A desire for expansion exposed the Romans into newer conflicts. Hence they battled with Carthage, a coastal town in North Africa. Sicily was a fertile area. The Romans fought for control of this area for 118 years. These wars are referred to as the 'Punic Wars'. The Carthagens were defeated in this war. By early 1<sup>st</sup> century B.C.E., the Romans had conquered Greece, parts of Asia and Egypt.

### **Gladiator**

The wrestlers of ancient Rome were called Gladiators. There were both expert and amateur wrestlers among them. The fights were organised to entertain the 'civilized' spectators. These fights which were fought between human beings, and sometimes between human beings and animals, ended in gruesome deaths of the participants. The place where the combat between the gladiators were fought was called 'Amphitheatre' and 'Colosseum'. Criminals, slaves and prisoners-of-war who had lost their citizenship rights were taken as gladiators. Gladiators on acquiring fame and wealth were sometimes given freedom. Recently, a film titled 'Gladiator' has become famous world-wide.

Conquests and victories had enabled Rome to acquire vast wealth and riches. Rome won over a lot of gold and innumerable slaves. Rome not only had Patricians and Plebians but also had slaves. The slaves did not have the rights of citizenship. They were the private property of their owners. Slaves were also sold. There were instances when the slaves secured their freedom under special conditions. The Romans who had immersed themselves in status egos used the slaves as gladiators. They were amused at the combat of the gladiators from the amphitheatre. A majority of the slaves and prisoners lost their lives in such games.

Over a period of time the chaos engulfed the Roman state. Now rebellions and assassinations took place. Bribery and corruption during elections became the order of the day. At this juncture, around 60,000 poor and exploited slaves rose in rebellion under the leadership of Spartacus. One year after their struggle they were ruthlessly suppressed. Around 60,000 people were crucified at this time.

The Generals on account of continual wars reduced the authority of the senate to insignificance. Pompey and Julius Ceasar are prominent among the hundreds of such military generals. These two vied with each other and finally Caesar emerged victorious against Pompey and tried to become a dictator. The result was that Brutus and his associates assassinated Caesar in the premises of the Senate. Later on, the authority was passed on to Julius Caesar's nephew, Octavius. He took revenge against those who conspired in the killing of Caesar. With Octavius, the republican form of government came to an end. Octavius ruled under the title Augustus. He called himself 'Princep' too. 'Princep' meant 'The First Citizen of the State'. He introduced many reforms and ruled for 44 years. The kings who came after Augustus were dictators. The Senate lost all its power. The king assumed supreme power and became a tyrant. From here onwards, we see the deterioration of Rome.

Each culture is responsible for the development of its language. The Roman reign was responsible for the development of the Latin language and literature. Rome also gave rise to distinct architecture. The Pantheon is a temple, whereas the Colosseum is an auditorium. Roman sculpture has been inspired by the Greeks, and is full of life. On account of the birth of Jesus Christ and the religion that he preached Rome acquired prominence.

## **The American Civilizations**

Maya, Aztec and Inca are the ancient Columbian civilizations of America. They represent the culture of the Indian aborigines of America.

The commemorative idols depict leaders and kings. These are called Olmec. The evidences and the excavations found here reveal a centralized society with an hierarchical system.

### **Maya Civilization**

The American-Indian aborigines of Yucutan area of Mexico are called the Mayas. Their language is called Yucutecc. The Mayas were the most advanced among the ancient American Indians. The ruins of cities built of stone have been obtained in Yucutan of Mexico, Guatemala and Honduras.

#### **The life of the Mayas**

Around a large site named Tikal, pyramids, ‘palaces’ and courtyards have been found all around stretching one square mile.

In all ceremonial centres and on either side of the courtyards, there used to be pyramids. Beneath them were buildings with many rooms. In front of these, there used to be mammoth stone pillars, of which a few were plain pillars. Usually depictions of gods, priests, important leaders in administration and hieroglyphic writing would be carved on these pillars.

There is no evidence of the use of metal among the Mayas. Even in early 16<sup>th</sup> century, copper and gold were rare.

## **The Aztecs**

Texcoco is a lake in Mexico. The Aztecs built their city on an island in this lake.

When the Spanish army entered the Mexican valley in 1519, they spotted the beautiful city on the island in a lake. That city was Tenochtitlan, the capital of the Aztecs, which had grown to symbolize their wealth and power. As the Spanish stepped into the city, they saw three wide roads. One of them led to the palace, the second led to the ornate temple and the third led to the pyramids. All these came under the Spanish conquest.

The Aztecs were worshippers of Nature. They tried to please God in many ways, one of them was human sacrifice. As the Aztec empire grew, they sacrificed more and more human beings to please the gods. It is believed that when the temple-pyramid of Tenochtitlan was dedicated, around 20,000 prisoners were sacrificed. The Spanish army which advanced under the leadership of Hernando Cortez in 1517 is said to have caused its cultural defeat too.

## **Inca**

The Inca empire which flourished during the 15<sup>th</sup> and 16<sup>th</sup> centuries spread in the areas of Peru, Ecuador, Chile and Argentina.

The talent of the Incas can be seen more in their organizational ability than in their artistic interests.

The palace on the island in Lake Titicaca and the Moon Temple are two famous buildings of the Incas.

The Incas had developed new ways of making pots, cloth and in working with metals. Creation of gold jewellery had progressed very well in parts of North Peru.

The Sun God was the most important deity of the Incas. This was the reason that there was a Sun Temple in all Inca centres. They worshipped objects of nature like the Moon, the Stars and lightning, and prayed to other natural phenomena.

## EXERCISES

### I Complete the following sentences by using suitable words in the blanks :

- 1 Hieroglyphics are called \_\_\_\_\_.
- 2 The kings who ruled Egypt are called \_\_\_\_\_.
- 3 The Greeks referred to Mesopotamia as \_\_\_\_\_.
- 4 The most famous king of the Amorites is \_\_\_\_\_.
- 5 'Princep' means \_\_\_\_\_.
- 6 The language of the Romans is \_\_\_\_\_.
- 7 Texcoco is a \_\_\_\_\_ in Mexico.
- 8 The ruling deity of the Incas was \_\_\_\_\_.

### II Match the following :

#### A

- 9 Hwang River
- 10 Cuneiform
- 11 Cleopatra
- 12 Hammurabi
- 13 Chinese dynasty

#### B

- a Mesopotamia
- b King of the Amorites
- c Shang
- d China
- e the last Egyptian queen

### III Answer in brief the following questions :

- 14 Which are the civilizations of ancient Columbia?
- 15 Who are the 'Mayas'?
- 16 How are 'mummies' preserved?
- 17 Write a paragraph on the Pyramids.
- 18 How was 'Hwangho River' China's sorrow?

#### **IV Activities :**

- 19 Learn about the life history of the Greek philosophers from your teacher.
- 20 Study and watch Shakesphere's drama Julius Ceasar.
- 21 Collect information about the Nile river.

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## CHAPTER-5

# SANATANA DHARMA



### After studying this chapter you learn :

- Learn about meaning and importance of sanatana dharma.
- The aspects of Indian cultural heritage.
- Causes for diversity in Indian culture.
- Develops unity in diversity.

om sarvebhavantu sukhinaḥ  
sarve santu nirāmayāḥ  
sarve bhadrāṇi paśyantu  
mākashchit duḥkhabhāg bhavet  
om sāntih, sāntih, sāntih

We all would have heard this shloka, the meaning of which goes: May everybody be happy; May Everybody be free from disease; May everybody have good fortune; May none fall on evil days. Such a universal thought is itself the foundation of sanatana dharma. Sanatana means very old also means eternally new. Sanatana dharma was born in this country which is now called Hindu dharma.

### The meaning of Veda

Bhadrampashyema - may we hear only good; maa vidvishavahai - may we not hate anyone, etc. are called the Shanti Mantras. These are found in the Upanishads which are a part of Vedic literature. Now, let us see what the word Veda means. The word has its root in the dhātu 'vid' which means knowledge. Vidya, vidvamsa, vidyarthi, etc. take form the same root sound.

Vedas are apaurusheya - that, not written by someone, but are the mantras that dawned upon the rishis (ascetics) through their tapas; fruits of their parallel and extraordinary knowledge experiences. Hence, they are the repository of an entire sect's deep knowledge and

extraordinary experiences. The way how one cannot limit the gain of knowledge over several thousands of years of mankind to one person, we can also not limit the Vedic knowledge to a few individuals' efforts – it is one entire community's knowledge bank.

### **Classification of Vedic knowledge**

Vedas have laid the basic foundation for sanatana dharma. Also called Shruti, Vedas are the world's oldest available literature. Vedas which indicate the dawn of India's religious literature, are around 5000 years old. They themselves are a result of thousands of years of several hermits' vision. The mantras formulated by the Rishis in praise of their deities are called Rikku-s. The group of rikku-s is called a Sukta. The collection of sukta-s created by a Rishi's disciples and progenies is called a Mandala. The aggregation of several mandala-s created by several groups of Rishi-s is called a Samhita.

The enormous corpus of Vedas existed during those times was so huge that it was practically impossible to study and teach all of it in one human lifetime. Hence, Krishna-dvaipayanamaharshi classified and divided the corpus and came to be called as Vedavyasa. This classification resulted in the shaping of four Vedas – Rig, Yajur, Sama and Atharva. These were taught by Vedavyasa to his disciples Paila, Vaishampayana, Jaimini and Sumanta, respectively. Over the times, these grew to become independent Vedas despite which there is an interdependency between the four Vedas but no contradictions. Exponents belonging to all four Vedas take part in the yajnyas conducted by singing hymns of deities.

### **Nature of Vedas**

A Veda is classified as Samhitas, Brahmanas, Aranyakas and Upanishads. Each of the four Vedas has its own set of Samhitas, Brahmanas, Aranyakas and Upanishads.

**Samhita:** Consists of hymns in praise of deities. These are hymns of praying the deities and fulfilling the aspirations through yajnya rituals.

**Brahmana:** That part of a Veda which describes system and order of conducting yajnya-s.

**Aranyaka:** That part which describes the interdisciplinary meaning of hymns and rituals.

**Upanishad:** That part of Vedas which are philosophical writings that describe the ways of realising the ultimate supreme spirit.

Rig-Veda samhita has 1,028 sukta-s, 10,552 mantra-s. All these mantra-s are written to literary meters of gayatri, ushnik, puraushnik, kakup, anushthup, bruhati, and others. Sukta-s are further classified into 85 anuvaka-s and 10 mandala-s. Those who study Rig-Veda in traditional ways classify it into 8 ashtaka-s, 64 prapathaka-s, 2,024 varga-s and 10,552 mantra-s.

### **Theist and Atheist sects**

The entire religious literature of sanatana dharma can be bifurcated into vaidika and avaidika. The literature born out of Vedas is vaidika, everything else is avaidika. Further, there are theist and atheist paths. All of vaidika literature is theist. However, the avaidika literature has both theist and atheist paths. Contrary to the popular belief, atheism in sanatana dharma does not mean not believing in the existence of God.

### **Smriti literature**

Vaidika literature's primary branch is shruti. The four Vedas are together called shruti. The other branch of vaidika literature is smriti. All of vaidika literature that supplements shruti is smriti. The one which is heard is shruti and the one which is remembered/memorised is smriti.

Smriti literature can be divided into three parts. The first one is vedanga-s dharma shastra-s, etc. Vedanga is the group of texts that describe the subjects and rules to be followed to understand the meaning of Vedas. The key parts of vedanga are shiksha, vyakarana, chandass, nirukta, jyotisha and kalpa, without the knowledge and background of which if one delves into studying Vedas, then there is a danger of improper understanding of mantra-s. On the other hand, dharmashastra-s are texts that lay out the rules required to be followed for an individual's religious and well-cultured society's existence and sustenance. Manu-smriti, Yajnyavalkya-smriti, Parashara-smriti and

other treatises instruct how a society must progress in the path of dharma.

Smriti literature's second part is itihasa (history) works of Ramayana, Mahabharata, the eighteen Purana-s and equal number of upa-puranas. Also included here are upanishad-s and poems related to purana-s.

Smriti literature's third part constitutes the pillars of Indian philosophical system – the six darshana-s: nyaya, vaisheshika, sankhya, yoga, purva-meemamsa and Uttara-meemamsa.

### **Religions and their Heads**

The three key branches of vedanga are advaita, vishishta-advaita and dvaita. These were established by Shri Shankaracharya, Shri Ramanujacharya and Shri Madhvacharya respectively. Following these three religious streams, other principles like shuddha-advaita, bheda-abheda, achintyabheda-abheda and others were formulated. Among these, shakti vishista-advaita is pro-Shiva. Kashmirishaiva darshana, shaivasiddhanta, veerashaiva are some of the important sects of Shaiva darshana. The other sects here are pashupata, kalamukha, kapalika, maheshvara, etc.

### **Jaina and Baudhha religions**

The general understanding of those who believe in Gods are theists and those who do not, atheists is an incorrect proposition. The very idea of 'belief' in Gods is alien to sanatana dharma. The idea was seeded when semitic religions entered India. The sanatana dharma's understanding has been that everything is God and there is nothing that is not God. The sanatana dharma's definition of theist and atheist are quite different. Those who believe in Vedas, the theory of karma and rebirth are essentially theists; all the literature that believes in these is theist literature. Hence, the darshana-s of sankhya and purva-meemamsa which believe in the above but do not recognise the necessity of gods, are still theist philosophies. However, since Jaina and Baudhha religions believe in fruit of karma and rebirth but do not in Veda-s, they are considered atheist. Even though Jaina and Baudhha religions do not deny the vedic concepts of papa, punya and

moksha, since they deny Vedas, vedic rituals and Brahma, they are atheist religions. Bauddha belief denies eternal atma concept while Jainism believes in the same. Sanatana dharma's foundation itself is viewing atma as house of pure happiness.

### **Beginning of idol worship**

Vedas consider Brahma as saguna and nirguna. Having name and form is saguna and transcending them is nirguna. Worshipping of saguna deities can be seen in Vedas itself. The Agama literature that grew as a theist literature by believing in Veda-s provides a large space for idol worship. Vaishnava, Shaiva and Shakta are three important Agama branches. Since these three incorporate beliefs in Veda-s, karma and rebirth, they are considered as theist sects. Shaiva and Vaishnava agama-s further enabled the formulation and growth of ritualistic procedures, iconography, temple architecture and designs, etc. Similarly, Shakta agama further gave birth to a vast area of philosophy called tantra. These three agama-s are largely responsible for the way how temples are created, worshipping rituals, celebration of festivals and many such traditions in sanatana dharma.

### **Diversity despite unity**

Sanatana dharma has evolved and grown over the last 3-4 millennia due to the broad foundation of diversity despite unity. Based on the features described in this chapter, the differences between sanatanadharma and Western religions can be clearly understood. The followers of Semitic religions have to believe in one prophet, one God and one religious text and have to follow the commandments issued by the god through a messenger. However, in sanatana dharma, there is no concept of one God, one prophet, one text and one set of commandments. Multiple deities worshipped in sanatana dharma are only forms of the creator of the universe – the supreme Brahma. Sanatana dharma has space for both vedic and a-vedic literature and traditions. Sanatana dharma has space for both theist and atheist religions. The intent of sanatana dharma has been ‘aanobhadrahkrtavoyantuvishvatah’ – let noble thoughts come to me from all directions of this world.

Let us hear and speak good; let us inculcate good behaviour; let us live happily with good health; let us give up hatred and jealousy; let us not commit violence and treachery; let us respect guru-s and elders; have devotion in deities; let us earn knowledge by walking in the right path to our fullest strength and character – this, is the essential message of sanatana dharma.

Veda-s have both prose and poetry. Rig-Veda's mantra-s are in poetry form while Yajur-Veda is mostly in prose. Several treatises (vedanga-s) that were written to explain Vedas are in the form of sutra-s and hence known as sutra literature. Sutra-s are unambiguous, made of minimum words, formed to give complete meaning and are universal statements. Sutra-s can be compared to modern world's equations and formulae. Pantanjali maharshi's yoga-sutra, Goutama rishi's nyaya-sutra etc., are all sutra literature. The smallest sutra, 'anushcha', is made of just three letters; can be found in brahma-sutra.

In India, much of worldly literature also has grown as a part of sanatana dharma. Ayurveda, vrukshayurveda, music, dance, architecture, mathematics, chemistry, law, etc., have flourished on this soil. All of these in one way or the other are grateful to Veda-s for their growth. For instance, the scholars must be aware of astronomy if they have to study Veda-s. Similarly, those who conduct vedic rituals must have the knowledge of the formation of sacrificial altars. Since these are tied to mathematics, mathematics also grew along with the spread of Veda-s. This is how the worldly knowledge systems and sanatana dharma are linked inseparably with each other.

### **EXERCISES**

#### **I Complete the below sentences with suitable answers :**

1. The other name of sanatana dharma is .....
2. Upanishad is a part of .....
3. The word Veda is derived from ..... root sound.

4. The meaning of 'vid' is .....
5. The one that is heard is called ..... and the one that is memorised is .....
6. India's two main history works are ..... and .....
7. The Indian philosophical pillars are .....
8. The vast area of philosophy that derives origin from Shakta-agama is .....

## **II Answer the following questions in brief :**

9. What is the meaning of Veda?
10. How many mantra-s are there in Rig-Veda? How are the grouped?
11. Name any two poetic meters used in Rig-Veda.
12. Name the four skanda-s of Veda-s.
13. Who classified the Veda-s? Why?
14. Name the four key sects of shakti vishista-advaita.
15. What is theist literature? Name two theist texts.
16. What is a Sutra? Give examples of sutra literature.
17. What is the difference between sanatana dharma and semitic religions?
18. What is the key message of sanatana dharma?

## **III Activities :**

19. Listen to the traditional recital of vedic hymns. Know which language the Veda-s are created in.
20. Gather at least five shanti-mantras and their meaning.
21. Understand the messages that Veda-s give out and note them down.

\* \* \*

## CHAPTER-6

# JAINISM AND BUDDHISM

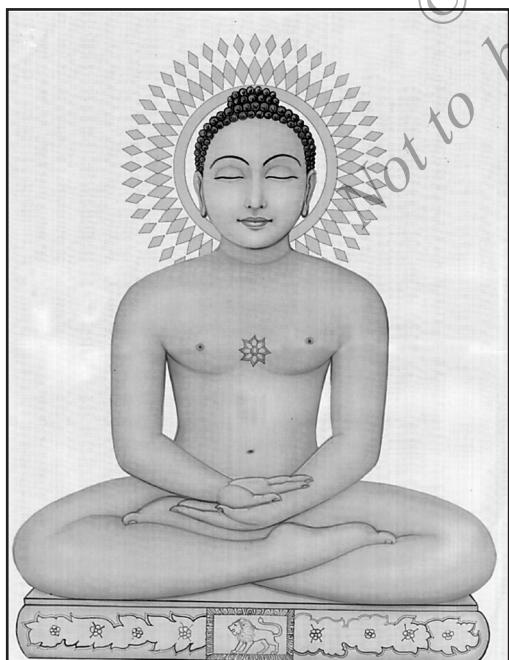


### After studying this chapter you learn :

- Learn about Jainism and Buddhism.
- Understands the principles of Jainism and Buddhism.
- The spread of Jainism and Buddhism.

### Jainism

Jainism is one of the very ancient religions. Traditionally, the Jains believed in the existence of 24 Tirthankaras. Rishabha was the first Tirthankara whereas Parswanatha was the 23 Tirthankara. Parswanatha was born as the son of King Aswasena in the 8<sup>th</sup> century B.C.E. It is believed that he renounced all luxury and indulgence, and attained immortality. He renounced society and became a hermit. He preached four principles for a peaceful life.



Vardhamana Mahaveera

### The four principles preached by Parswanatha, were :

1. Non-violence
2. Truth
3. Astheya (not to steal)
4. Aparigraha  
(not to own property)

The fifth principle of Bramhacharya was taught by Vardhamana. He was the 24th Tirtankara.

### Vardhamana Mahaveera (599-527 B.C)

Vardhamana was born in Kundala grama in Vaishali, one of the republics. His father was Siddhartha, the king of the

Gnatrika tribe. His mother was Trishaladevi, the princess of the Republic of Licchavi.

At the age of 30 Vardhamana set out in search of truth and renounced his family and house. He wandered for 12 years in this quest, and meditated. He punished his body by fasting. At the age of 42, he achieved enlightenment (Kaivalya). Vardhamana controlled his senses and achieved power over comfort and pain. Due to this achievement, he came to be known as 'Mahaveer' and became a 'Jina'. A Jina was one who had overcome his senses and become victorious. Thus his followers came to be called Jains.

Mahaveera spent thirty years, i.e., the rest of his life preaching his knowledge to the people around the Ganga and Yamuna rivers. He travelled towards Western India preaching his thoughts. He attained nirvana in his 72<sup>nd</sup> year in Pavapuri of Bihar.

Mahaveer taught five vows and three principles of behaviour. The latter are called Triratnas.

#### **The 5 vows are as follows :**

- |                 |               |
|-----------------|---------------|
| 1. Non-violence | 2. Truth      |
| 3. Astheya      | 4. Aparigraha |
| 5. Brahmacharya |               |

#### **The triratnas are as follows :**

- |               |                  |                   |
|---------------|------------------|-------------------|
| 1. Samyakgyan | 2. Samyakdarshan | 3. Samyakcharitra |
|---------------|------------------|-------------------|

Jainism does not reject the existence of God completely, yet it advocates atheism. It denies the role of God in the daily affairs of people. It places God at a lower level than Jina.

The Jains believe that every animate and inanimate thing possesses a soul. They also believe that it is only through purification of the soul that one can achieve freedom from rebirth and attain nirvana. Purification is possible through meditation, fasting, punishment of the body and thereby, destruction of the body. This process is known as sallekhana. The concept of Karma is a very important aspect of Jainism. According to this, a human being can attain salvation only through good and holy acts. To attain enlightenment, the soul had to achieve freedom from the bondage of the body.

Traditionally, we get to see two important sects among Jains called Swethambars and Digambars. Those saints and their followers who wear white clothes are called Swethambars, whereas those saints and their followers who do not wear any clothes are called Digambars. After the first Jain council, the preachings of Mahaveer were compiled in 12 volumes. These were called 12 angas by the Jains. They are in Prakrit language.

Very early, one group of Jains migrated to the South due to the famine in Bihar, and settled down at Shravanabelagola. Thus even here, Jainism spread and many works were written in Kannada, Telugu and Tamil languages. The famous Kannada poets Pampa, Ranna, Janna and Ponna were Jains.

## Buddhism



**Goutam Buddha**

and the Eightfold Path.

Siddartha who later became known as Gautam Buddha was born in the 6<sup>th</sup> century B.C.E. His father Shuddodana was the king of the republic of Shakya. Renouncing royal luxury and familial pleasure, Siddartha became a hermit. Disillusioned with the prevailing ways of life, he embarked upon a quest for truth. Attaining enlightenment, he became Buddha. After becoming Buddha, the ‘Enlightened One’, he first went to Sarnath near Banaras. There, in the deer park, he gave his first sermon. This has been called Dharma Chakra Pravarthana. Here he preached the Four Noble Truths

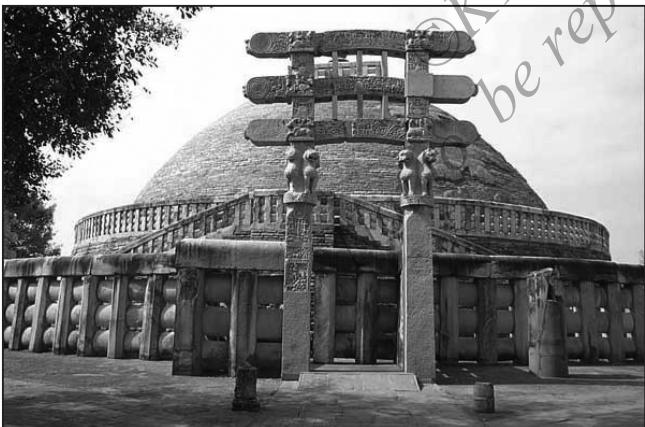
The Four Noble Truths declare that the whole world is full of sorrow and suffering. They also explain the root cause of sorrow. Buddha realized that desire was the root cause of sorrow. Only by the liberation of excessive desires could a peaceful life be led. Buddha preached the Eight Fold Path for eliminating desires. This is called the Middle Path.

## **The Eight Fold Paths are :**

- Right    1. Action  
          2. Speech  
          3. Vision  
          4. Livelihood  
          5. Effort  
          6. Recollection  
          7. Resolve  
          8. Thought.

## **Followers of the New Religion**

Wealthy merchants, artisans and common people were inspired by the new teachings. Buddha gave his messages in Prakrit, the language of the common man and related them to various aspects of their tradition. The atmosphere of the new cities changed the ways of life of the people. The new religions became a ray of hope in the changed circumstances. Buddhism, especially, took on a new role of transforming the lives of people.



**Sanchi Stupa**

This has been called 'Mahapari nirvana'.

Viharas were constructed in all the areas in which Buddha wandered. People preserved his relics and bones in chaityalayas and stupas, and in memory of his accomplishments started worshipping him in chaityalayas and stupas. This was how the first temples, idols and idol-worship began.

Buddha and his followers visited Kosala, Magadha and many cities on the Gangetic plain and spread his messages there. They walked from one city to another and devoted their lives for others. In his 80<sup>th</sup> year, Buddha's glorious life of selfless service came to an end at Kushinagar.

Buddhism spread not only in India but also in foreign countries. Chinese travellers like Fa Hien, It Sing and Hiuen Tsang have described vividly the glory of Buddhism. Buddhism had spread to Malaya, Burma, Thailand, Vietnam, Cambodia, Sri Lanka and Bamiyan too. Boulders have been cut from mountains and shaped into statues of Buddha. Even today we can see gigantic statues of Buddha in Angkor Vat of Cambodia and Bamiyan of Afghanistan. Unfortunately, the huge statues of Buddha in Bamiyan came under attack and were destroyed in recent times.

In 1956, inspired by Buddha's teachings, India's prominent social philosopher and architect of the constitution, Baba Saheb Dr. B.R.Ambedkar embraced Buddhism.

### **Dharma and Religion**

The concept of religion is a European one. It refers to an individual's beliefs regarding man and society. It is centered around God. When it is not centered around life in this world, it becomes philosophy. Each religion has sacred books of its own. These books reveal the thoughts of the person responsible for the birth of the religion. As religions grew, different sects developed among them. In the Indian context, Judaism, Islam and Christianity can be called religions. Here a distinction can be made between theists and atheists. Traditions that approve vedic authority or faith in the existence of god are considered theistic traditions. Traditions denying the vedas or having no faith in the existence of god are considered atheist. The concept of Dharma is related to a way of life.

After Buddha's death, his followers collected his teachings and tradition in the form of Tripitakas. These are Vinaya, Dhamma and Abhidhamma pitakas. Over a period of time, disagreements developed in the teachings and different branches of Buddhism sprang up. Thus Hinayana, Mahayana, Vajrayana and their sutras came into being. Today we see many organizations across the globe adopting different ways of realizing Buddha.

## **Foreign Invasions**

During this period, there sprang up city-states in Greece. Ancient Persia had grown into a powerful empire. These two areas engaged in continual conflicts. The Akhimenians were one group who ruled Persia. In 6<sup>th</sup> century B.C.E. King Darius of this dynasty established a strong empire. His kingdom extended up to the Indian border during his time. In 4<sup>th</sup> century B.C.E. the Macedonian king Alexander won over the Greek city-states and captured Persia. Thus even the part of the Persian kingdom which had spread up to the Indian border, came under the control of Alexander. After overpowering Persia, Alexander entered India through the passes in Kandahar and Hindu Kush. He advanced till Ravi and Beas rivers, and unable to proceed further, he crossed the Indian border through river Jhelum, and on his way back home, he died at Babylon.

### **The battle between Alexander and Paurava:**

When Alexander accepted the invitation of Ambhi, the king of Taxila, and came to India, it was with Paurava that he had to confront. Paurava was also called Porus. The two armies faced each other on the banks of the river Jhelum which was flooded and wild at that time. Alexander's army attacked Paurava who had never expected anyone to cross the swollen river, and won. Alexander asked the captured Paurava how he desired to be treated. Paurava replied with pride and courage, "As one king deserves to be treated by another". Paurava's brave adventures have been immortalized in Greek writings. Alexander's attack led to the consolidation of small and big republics and the establishment of the Mauryan dynasty. The arrival of the Greeks influenced North Indian art and science. Proof of this influence can be found in the famous art form known as Gandhara art which existed at that time.

## **EXERCISES**

### **I Complete the following sentences by using suitable words in the blanks:**

- 1 The first Jain Tirthankara was \_\_\_\_\_.
- 2 Vardhamana was born at \_\_\_\_\_.
- 3 Mahaveera attained \_\_\_\_\_ in his 42<sup>nd</sup> year.
- 4 Mahaveera attained Nirvana at \_\_\_\_\_ in his 72<sup>nd</sup> year.
- 5 The original name of Gautama Buddha was \_\_\_\_\_.
- 6 Buddha delivered his first sermon at \_\_\_\_\_.
- 7 The first sermon of Buddha is called \_\_\_\_\_.

### **II Answer in brief the following questions:**

- 8 Write in detail about Mahaveera's life.
- 9 What are the triratnas?
- 10 Name the sects among the Jains.
- 11 What is the middle path?
- 12 Who were the people influenced by the new religion?
- 13 Write a note on the Tripitikas.

### **III Activities :**

- 14 Collect information about the life of Mahaveera.
- 15 Collect pictures relating to the life of Gautama Buddha.
- 16 Learn the meanings of words like dharma, sect, theism and atheism.

\* \* \*

## CHAPTER-7

# MAURYAS AND KUSHANS



### After studying this chapter you learn :

- That first ever empire of India was Mauryan empire.
- About the empire, Ashoka's achievements, administrations and contributions to art and architecture.
- About the history of Kushan's, administration and contributions of Kanishka.
- Locating (marking) the region of Ashoka's empire on the India map.

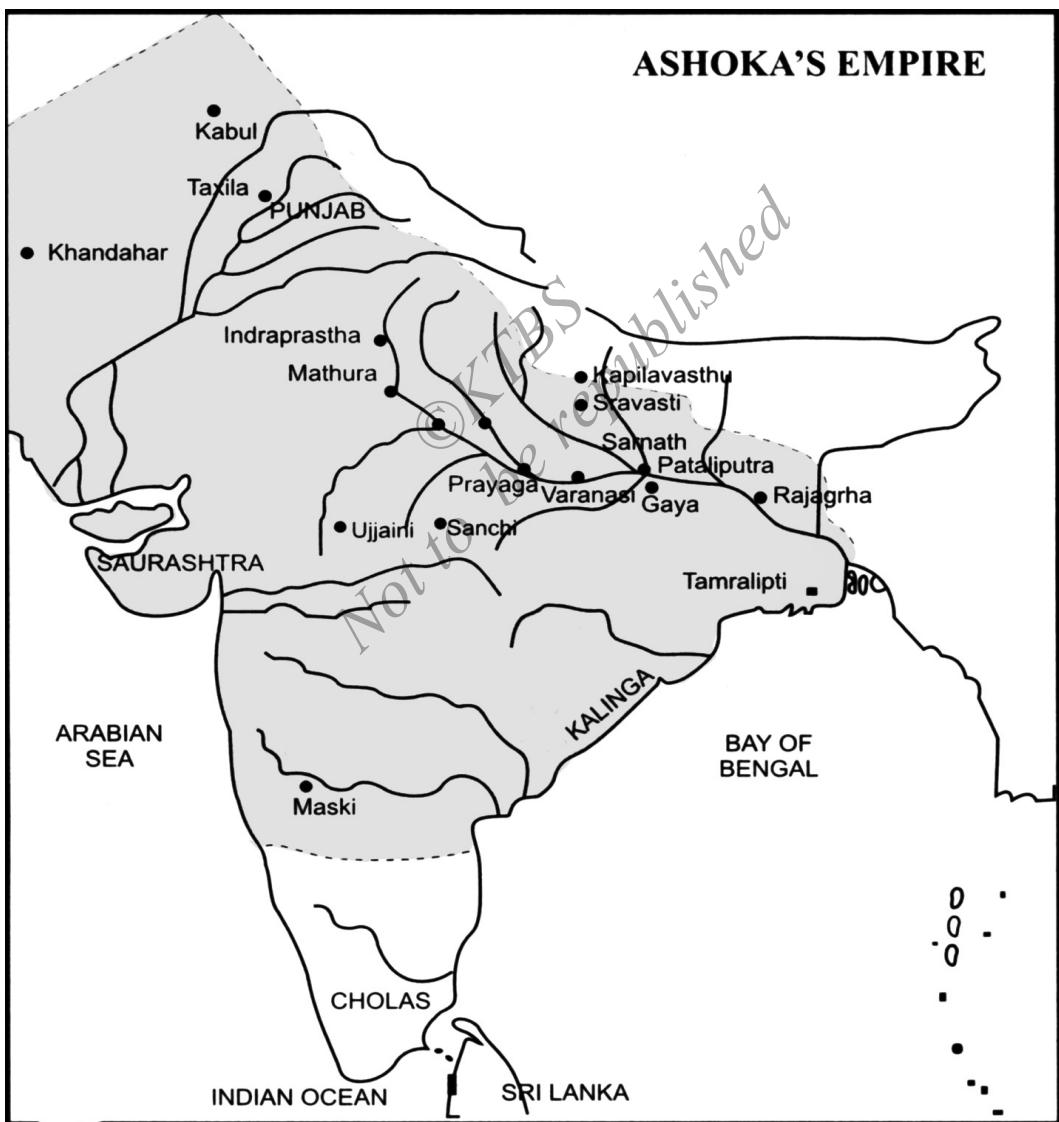
### The Mauryan Empire

The Mauryan empire was the first Indian empire. They ruled the kingdom from Magadha. Chandragupta Maurya, Bindusara and Ashoka are the prominent kings of this dynasty. The dynasty was established by Chandragupta Maurya. The Greek ambassador Megasthenes recorded the fame of Chandragupta in 'Indica' and immortalized him. The contents of 'Indica' are not known to us since this work has been lost. But certain descriptive excerpts have been found in the works of some Greek writers. Chanakya was Chandragupta's minister. He became widely known as Kautilya. His ideas are described in the work 'Arthashastra'.

### Arthashastra

In 1902, R. Shama Sastry a renowned sanskrit scholar, found, in the Oriental Library of Mysore, the manuscript of Arthashastra written by Kautilya. The Arthashastra is not merely economics as understood by the western world. Arthashastra contains topics like principles of administration of a kingdom, the responsibilities of a king and his ministers, foreign policy, financial management, etc. Stress is laid on the spy network and military system. Even after thousands of years, Kautilya's Arthashastra has been attracting scholars by its uniqueness.

Ashoka is a famous king of this dynasty. Five important city centres can be identified during this period. They were the capital of the Mauryas, Pataliputra, Taxila, Ujjain, Kalinga and Suvarnagiri. These were major link routes too. Taxila was the gateway to north-west India. Ujjain was the route to trade from north to south. Kalinga was the gateway to the sea through the river Ganges. Suvarnagiri was in the Deccan region, i.e., the modern Karnataka. All these areas were trade routes and were in contact with one another.



### **The Battle of Kalinga**

Eight years after his coronation, Ashoka conquered Kalinga. 150000 soldiers were captured in this battle. 1,00,000 people died during the battle. Seeing death and suffering the battle had caused, Emperor Ashoka was moved. He was saddened by the realisation that innumerable, innocent people who had been in perfect harmony with their fellow-human beings and were leading simple, virtuous lives, had either died or been wounded and separated from their loved ones. This was the reason that after conquering Kalinga, Ashoka experienced deep regret and, inspired by 'Dhamma', advocated peace.

Ashoka carried on the administration of his vast kingdom from different centres. All centres proclaimed the aspirations of the king. His aspirations were expressed through edicts. These edicts, which can be seen on rocks and stone pillars, have been the first ever inscriptions available to us. Ashoka was transformed after viewing the huge loss of life during the Kalinga war. Compassion as preached by Buddha influenced Ashoka. He spread the teachings of Buddha throughout the country. He appointed Dharma Mahamatras for this purpose. His views on Dharma are expressed in his edicts. These are well-known as Ashoka's Dharma.

We see vast developments in trade and agriculture during this time. The government had adopted various measures to improve agriculture. Special tax concessions were given towards this end. There were many officials to carry on the administration of the vast empire. A permanent



**The Dharmachakra engraved on the pedestal**

Many of the edicts issued by Ashoka are in Prakrit. They are in Brahmi script. Ashoka's rock edicts have been found at Brahmagiri, in Karnataka.

The capital found in the Sarnath pillar of Ashoka has been adopted by the Indian government as National Emblem.

regulating sea and land routes. Different taxes were levied on these.

army was also found necessary. To carry out all these activities, taxes were needed. Land tax was the main source of income for the king and various officials served in collecting taxes. Spies kept the king informed. They had established control over trade and commerce by

### **The Kushans**

After the Greeks, it has been the Kushans who have influenced Indian history and culture. They gave special impetus to the spread of Buddhism. The Mahayana sect received greater encouragement under their patronage. Gandhara sculpture flourished during their time.

An important dynasty after the Mauryas is that of the Kushans. They were basically from a nomadic tribe which had migrated to India from Central Asia. They were the progeny of Yuchi. The Sakas and the Parthians were the other foreign communities that had settled in the north-western part of India. The Kushans defeated the Sakas and the Parthians, and settled in the Gandhara region.

The founder of this dynasty was Kujalakadphesus. Vimakadphesus and Kanishka are the noteworthy kings of this dynasty. The Yuchi factions became united under the leadership of Kujalakadphesus. He crossed the Hindu Kush range and settled in Kabul and Kashmir. During the time of Vimakadphesus, gold coins were brought out. From then onwards, the Kushans



**Gandhara style Buddha**

minted mainly gold and copper coins.

Kanishka came after Vimakadphisus. During his reign, the Kushan dynasty flourished greatly. He established his rule in 78 C.E. and heralded a new era. This era is called the 'Saka' era.

Kanishka's rule had spread up to Sanchi in the south and Banaras in the east. His kingdom, which included Central Asia too, was a vast empire. Purushapura was his capital. Mathura was another significant town of his time.

Due to the patronage given by Kanishka, Buddhism could prosper much more than before. We get to see many Buddhist scholars like Nagarjuna, Aswagosha, Vasumitra, Sangaraksha and others at this time. The fourth Buddhist conference was held at Kashmir under the leadership of Kanishka. Like Ashoka, even Kanishka sent missionaries to Central Asia and China to spread Buddhism. During his reign, art and architecture got encouragement.

### **EXERCISES**

**I Complete the following sentences by using suitable words in the blanks :**

- 1 Chanakya came to be known as \_\_\_\_\_.
- 2 The capital of the Mauryas was \_\_\_\_\_.
- 3 The founder of the Kushan dynasty was \_\_\_\_\_.
- 4 The new era of Kanishka's reign is called the \_\_\_\_\_.

**II Answer to the following questions in brief :**

- 5 Name the important cities of Ashoka's period.
- 6 Describe Ashoka's administration.
- 7 Which dynasty did the Kushans belong to?
- 8 What was the extent of Kanishka's empire ?

**III Activities :**

- 9 Learn about the Gandhara art.
- 10 Collect information from your teacher about the Buddhist Conference which took place during Kanishka's rule.

\* \* \*

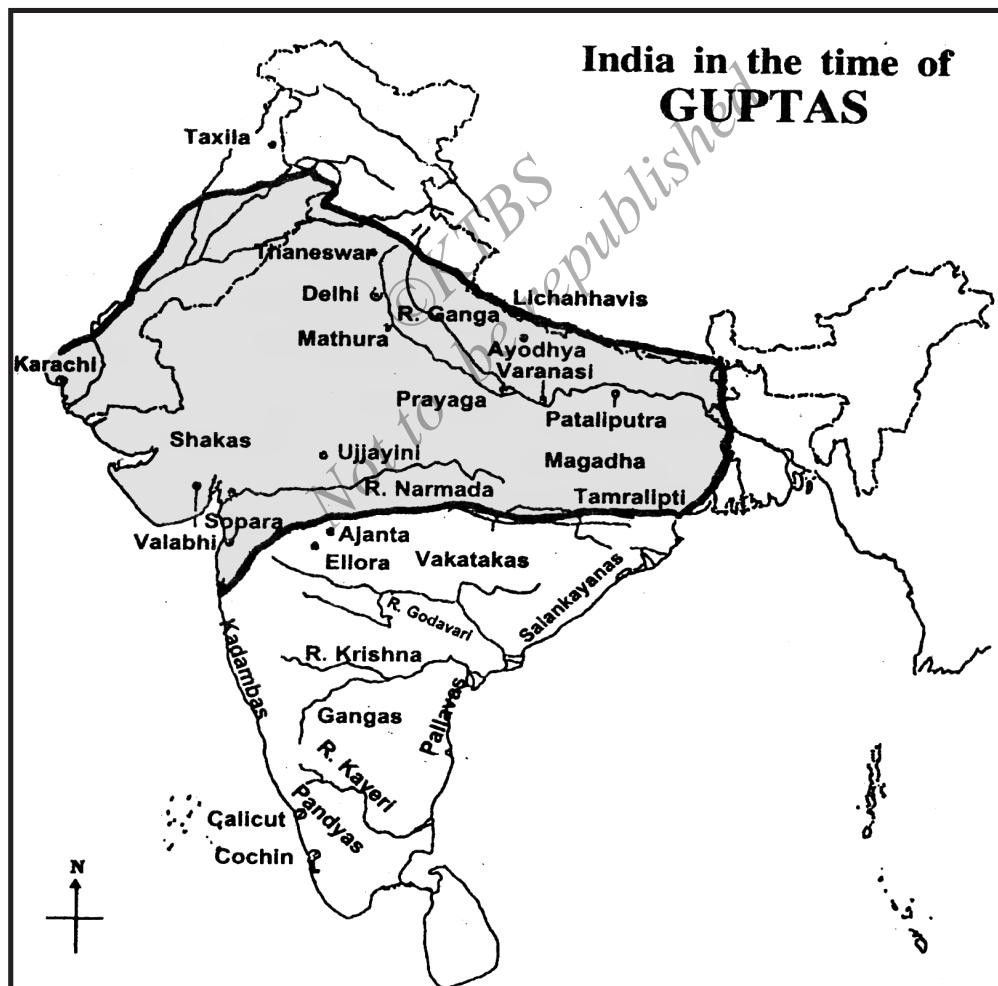
## CHAPTER-8

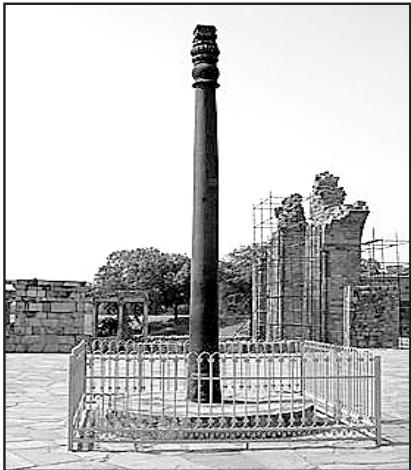
# GUPTAS AND VARDHANAS



**After studying this chapter you learn :**

- About the famous rulers, expansion and growth of Gupta empire.
- About their contribution to administration literature and science.
- About the growth of Vardhana's and their contributions to literature and education.
- To know the extent of Gupta empire in the map of India.





**Mehrauli Iron Pillar**

After centuries of political instability, the Gupta Empire rose in the 4<sup>th</sup> century C.E. Sanskrit language and its vast literature bear a mirror to this age. The guptas probably came over from Magadha. Chandragupta I married a Licchavi princess and strengthened his kingdom. It is believed that the Gupta era began with his reign in 320 C.E. He was called the Maharajadhiraja.

We see his son Samudragupta after him. His achievements have been commemorated in the Allahabad prashati

written by Harisena. This is in Sanskrit language and has been inscribed on Ashoka's pillar. Most part of India was under the rule of the Guptas during the time of Samudragupta. His Aswamedhayaga brings to mind the Vedic rituals and traditions. Samudragupta was not just a conquerer, but a great poet and a lover of music too. His passion for music can be seen in the gold coins which depict him playing on the veena.

The Iron Pillar at Mehrauli in Delhi near Qutb Minar is important. It is 23 feet and eight inches in height and weighs 6,000 kg. It is one of the finest examples of the technical skill of the time. It has not become rusty till now. If phosphorus is mixed with iron resting process will be delayed. That shows in those days Indians had a sound knowledge about metallurgy.

### **Meghadoota**

This is a poetic creation of Kalidasa, and is one among his very famous work. Yaksha is exiled by King Kuber for having neglected his duties. In this situation, the yaksha stops a passing cloud and persuades it to carry a message of love to his wife who lives near the Kailash mountain. He describes the beautiful scenery on the route to his wife's place. Even today this poem is famous all over the world. It has been translated into all the Indian languages and major languages of the world. People have been enjoying the dramatization of Meghadoota till today.

Chandragupta II expanded the kingdom of Samudragupta and brought stability. He defeated the Sakas and made Western India a part of the Gupta Empire. He developed relationships with many Indian royal families through marriage and became very influential. He earned the title of Vikramaditya. His reign is memorable more for the encouragement given to literature and art, rather than for its battles. The famous Sanskrit poet and dramatist, Kalidasa, belonged to this age. Meghadoota, Raghuvamsha, Kumarasambhava and Ritu Samhara are his lyrical contributions. Abhijnana Shakuntala is one of his noteworthy plays. Sudraka's Mricchakatika and Vishakadatta's Mudrarakshasa are the other literary works of this period.

### **Abhijnana Shakuntala**

This is considered the best drama of Kalidasa. The story of Shakuntala is in the Mahabharata. In the story, King Dushyanta while on his hunt in the forest, happens to come to Sage Kanva's ashram. There he sees Shakuntala, falls in love with her and both get married in Gandharva style. All this takes place in the absence of Sage Kanva. After some time, Dushyanta leaves Shakuntala in the ashram and returns to his capital. During this period of separation, Sage Durvasa arrives at Kanva's ashram. Seeing Shakuntala lost in the thoughts of Dushyanta and finding none to attend him was enraged. Sage Durvasa lost his temper and cursed her saying, "Let the one in whose memory you are, forget you". When he realised his own harshness, Sage Durvasa suggested a way to be free from the curse. He says that an object given to her would ultimately bring back his memories of her. The object was a ring that Dushyanta had given to Shakuntala. As Sage Durvasa had said, Dushyanta forgets Shakuntala. After a period of time the disciples of sage Kanva took Shakuntala to the court of Dushyanta to unite them. She was pregnant at that time. On the way, Shakuntala lost the ring which would have brought back recollection in Dushyanta. Thus Dushyanta was unable to recognize her. Shakuntala leaves the palace in humiliation. After a few days, the ring was found in the stomach of a fish, and on seeing it, Dushyanta recalls everything. He was filled with remorse.

Some time later, while he was returning from a journey, he pays a visit to Sage Maricha's ashram. There he sees a small boy playing with lion cubs, and when he enquires about his background, he comes to know that the boy is his own son, Sarvadamana. In this manner, Dushyanta is united with his wife, Shakuntala, and son. Abhijnana Shakuntala is one of the greatest plays in the world. It has earned great acclaim all over the world.

The Gupta Empire was subjected to continual attacks of the Huns and thus, declined soon. The Guptas did not have a fully equipped large army. The vassal kings would fulfil the requirements during times of war. Hence, the vassals had become very powerful. The bureaucracy consisted of Kumar Amatyas. They head various positions. The administration was decentralized. The priests received many grants. They would be granted many villages. Many temples saw development due to this. These areas not only enjoyed financial and administrative concessions but also became independent in all matters. However, over a period of time, the local people, farmers and artisans began to be controlled by the landlords. In this way, society grew more and more complex.

During this period, the trade that the Guptas had with the Westerners collapsed. Consequently, their economic system suffered. The restrictions imposed on their empire obstructed their internal trade too. Trade was limited to villages. The collapse of trade led to the decline of the trade centres. Pataliputra got reduced to the size of a village.

Based on the sentiment of bhakthi, this period witnessed creation of various religious texts like the Puranas and the Dharmashastras. Varahamihira, Bhaskara-I, Aryabhata, Charaka and Sushruta were the great scientists of this time. Varahamihira, Bhaskara-I and Aryabhata made significant contributions to the study of astrology, astronomy and mathematics. Charaka wrote Charaka Samhita. Sushruta wrote Sushruta Samhita which dealt with surgery.

### **Scientists of the Gupta Period :**

- 1. Dhanwantari:** He was a famous scholar in the field of medicine. He was a specialist in Ayurveda. He is the father of Indian Medicine. His chief contribution to the medical field has been the Ayurvedic dictionary.
- 2. Charaka:** He was a medical scientist. His major contribution to the field of medicine has been the Charaka Samhita.
- 3. Sushruta:** He was a surgeon. He was the first Indian to explain the process of surgery. He has recorded that in those days, there used to be a separate wing to treat soldiers. Like modern surgeons sushruta was a wellknown surgeon of yester years and contributed significantly to the field of surgery.

- 4. Aryabhata:** He was a famous astronomer and mathematician. He is the prominent scientist who come after Varahamihira. His contribution to Astronomy and Mathematics has been highly significant.

This is the reason that the Aryabhata award is being presented by the Indian Government to great scientists. The first Indian satellite has been named after Aryabhata. He is believed to have invented 'the zero'. He was the first Indian to master algebra. He reiterated the fact that solar and lunar eclipses happen not due to Rahu but solar eclipse is caused when the moon is between the sun and the earth. Lunar eclipse - when the earth is between the sun and the moon.

- 5. Varahamihira:** He was a famous astronomer. He wrote a book on astronomy named Panchasiddhantika, In addition to this, he wrote Bruhat Samhita, Bruhat Jataka and Laghu Jataka. He was a scholar in many fields like astronomy, astrology, geography, metereology, etc.

## **THE VARDHANS**

The Gupta Empire which had flourished for two centuries, disintegrated around 6<sup>th</sup> century C.E. Many small kingdoms sprang up at this time. The kingdom of the Vardhanas was one of them. They ruled from Thaneswar in 6<sup>th</sup> century. Some copper inscriptions, Bana's Harshacharita and the Chinese traveller, Hiuen Tsang's writings throw light upon this period.

Pushyabhuti is the founder of this dynasty. Prabhakaravardhana and Harshavardhana are the prominent kings of the dynasty. After the death of his father, Prabhakaravardhana, and his brother, Rajyavardhana, Harsha became the king of Thaneswar.

His sister Rajyashree was married to the king of Kanauj. When the king of Bengal Sashanka killed the king of Kanauj, Harsha captured Kanauj, and attacked the king of Bengal. Bengal and Magadha came under his rule. But he could not advance beyond the Narmada river in the south. The Kannada king of the Chalukyas, Pulakeshi II, halted his progress, and forced him to go back. This achievement of Pulakeshi II has been immortalized in the panegyric (prashasti) inscription written by the court poet, Ravikirti. Harsha lost his Harsh (joy) due to his defeat.

The king's rule was assisted by the council of ministers. The bureaucracy consisted of the Mahasandhivigraha (the negotiator), Mahabaladhikruta (military general), Bhogapati (tax official) and Doota. The kingdom had been divided into provinces. Land tax was the major source of income for the kingdom. Feudatory chiefs paid tribute to the king. The king gave them land, grants and in return, got the help of their armies. When the king became weak, the feudatory chiefs became independent.

Land grants were given to other communities and religious people as well. Harsha gave prominence to Buddhism. We get details of the popularity of Buddhism from Hiuen Tsang's writing. The Buddhist wing. Nalanda University was full of activity during this period. It enjoyed royal patronage.

## Nalanda



Buddha's followers believe that 'Nalanda' was the name of Buddha in his previous birth. This is famous as an ancient university. Buddha had visited Nalanda. Mention has been made of the 25 metre tall bronze image of Buddha that

Harshavardhana gifted to Nalanda. Kumaragupta had made contributions to a fine arts school here. Nagarjuna the Chief exponent of middle path, Dinnaga and Dharmapala were the other famous scholars who taught here. The Chinese traveller, Hiuen Tsang, visited this place and stayed for some time. He has given a detailed description of this place. There were stupas, chaityas, viharas, rest houses, benches here and there to sit and rest awhile, meditation rooms, lecture rooms and many other structures reveal the glory of this place. The Gupta kings and Harshavardhana have been the famous patrons of this place. An accidental fire destroyed many texts at Nalanda.

### EXERCISES

#### I Complete the following sentences by using suitable words in the blanks :

- 1 The Guptas began their reign from the place \_\_\_\_\_.
- 2 Chandragupta I was called \_\_\_\_\_.
- 3 One of the great play of Kalidasa is \_\_\_\_\_ .
- 4 Vishakadatta's literary work is \_\_\_\_\_.

- 5 The literary work written by Sudraka is \_\_\_\_\_.
- 6 The founder of Vardhana dynasty was \_\_\_\_\_.

**II Answer in brief the following questions :**

- 7 Write about Chandragupta II.
- 8 What were the reasons for the downfall of the Gupta Empire?
- 9 Name the great scientists of the Gupta Age.
- 10 How was the administration during the Vardhana rule?
- 11 Write about Nalanda University.

**III Activities :**

- 12 Collect details about all the works of Kalidasa.
- 13 Collect information and pictures of the scientists of the Gupta period.

## CHAPTER-9

# SOUTH INDIAN DYNASTIES : SHATHAVAHANA, KADHAMBA, GANGA



(FROM 3RD CENTURY B.C.E. TO 13TH CENTURY C.E.)

**After studying this chapter you learn :**

- About the growth of Shatavahanas in south India, their achievements, administration, art and architecture.
- The achievements of Shatakarni.
- That Kadambas were the first to establish an empire in Karnataka.
- About the establishment of Ganga dynasty, their contributions to art, architecture and literature.
- Locating the areas of Shatavahana's, Kadambas and Gangas.

The Vindhya mountains separate North and South India. The area between the Vindhya mountains and Kanyakumari in the south is called South India or the Deccan region. The Shatavahanas, Kadambas, Gangas, Chalukyas, Rashtrakutas and Pallavas have been the important dynasties of this region.

### **The Shatavahanas (230 B.C.E. to 220 C.E.)**

The Shathavahanas were the first to have established a dynasty in the Deccan. They had settled themselves in the land between the Godavari and Krishna rivers. They were the vassals of Chandragupta Maurya and were paying tributes to him. In 220 B.C.E. Simuka became independent and made Srikakulam, his capital.

**Gautami Puthra Shatakarni :** He was a prominent king of this dynasty. He had done away with the bitter enemies of the kingdom , the sakas, beyond the borders of India. Shalivahana Saka is supposed to have been started by him.

He expanded his kingdom to include not only Konkan, Birar, Saurashtra and Malawa, but also many new areas. He had titles such as 'Trisamudratoyapitavahana' and 'Shatavahana Kulayasha

pratishtapanakara'. Yajnashri Shatakarni was the last king of this dynasty. During his time, on account of continual attacks by the Shakas, the empire declined.

During the Shatavahana rule, the king was supreme. The kingdom had been divided into provinces called Janapada for purpose of administration and officers had been appointed to look after them. The cities and villages were looked after by self-governing institutions.

There was no discrimination on the basis of varna in the society. Even women held high offices and had status in society. There were people of different occupations like farmers, merchants, goldsmiths, fishermen, carpenters, weavers, medicine man etc. There were occupational associations. Later these associations emerged as commercial and trade organisations. There was encouragement for even foreign trade, and Nasik, Kalyan, Broach and Bhatkal were trade centres.

The Shatavahanas who followed the Vedic tradition, encouraged other religions like Buddhism and Jainism and believed in harmony.

They promoted art, literature and education. Literature was created in Prakrit, the language of both scholars and common people. *Gathasaptashati* written by Hala is an example of this.



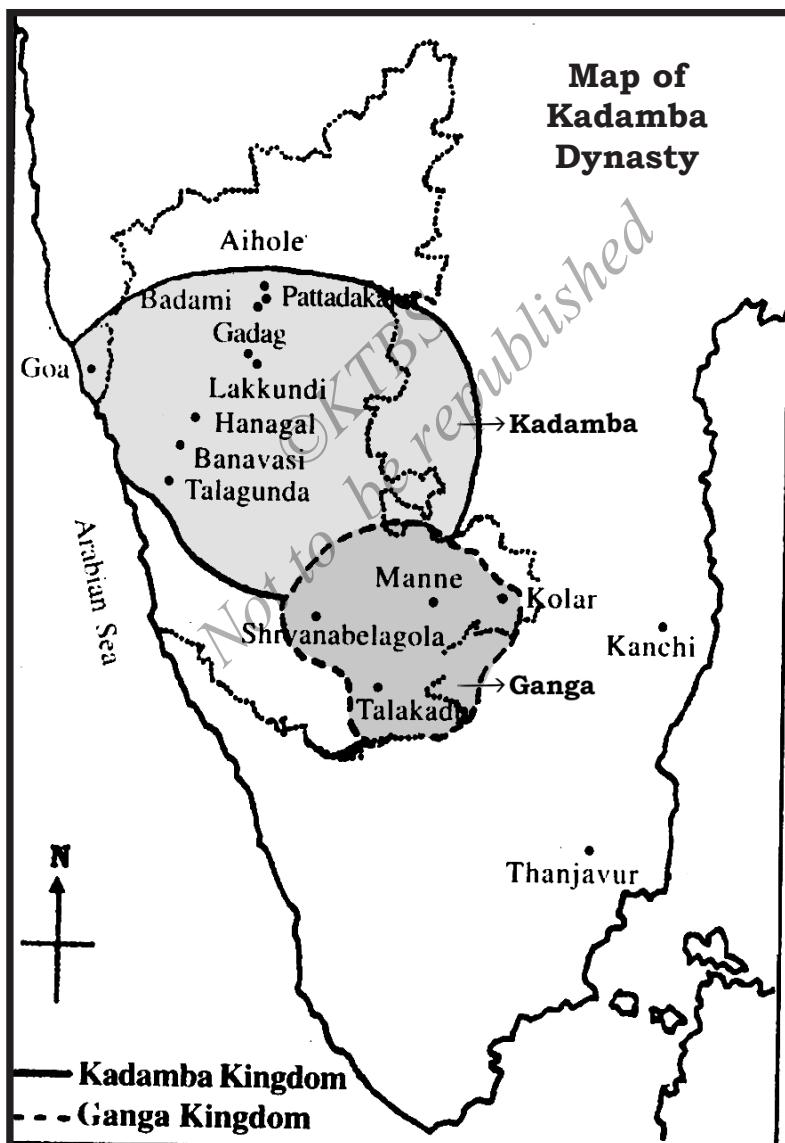
**Chaityalaya at Karle**

The Ajanta and the Amaravati paintings belong to the period of the Shatavahanas. Temples, viharas and chaityalayas were also constructed. A chaityagraha was built in Karle by the Banavasi merchant Bhootapala.

During the period of the Shatavahanas, the Kannada region was prosperous kannadigas were adventurous and able administrators. They had enriched Indian culture by their contributions.

## The Kadambas (325 C.E. to 540 C.E.)

This is the first dynasty to be established in Karnataka. Their capital was Banavasi which is in present North canara district. Mayurasharma was the founder and a great king of this dynasty. When Mayura sharma was insulted by the Pallava king, Shivaskanda Varma, he adopted the kshatriya way of life and became Mayuravarma. He defeated the Pallavas in a war and established the Kadamba empire. He is the pride of all Kannadigas.



*According to the Chandravalli inscription at Chitradurga, Mayuravarma is said to have increased the height of the wall of the chandravathi lake.*

The Kadambas made special contributions to Karnataka and Indian culture. There was political unity for around three hundred years under the Kadamba rule. Royal priests, ministers and military generals played a significant role in administration. For administrative ease, provincial officers had been appointed to look after the provinces.

Land revenue was the main source of income in the kingdom. The occupations such as carpentry, goldsmithy, blacksmithy, weaving, oil-extraction, pottery were the main ones in the society. There was greater encouragement for agriculture and trade. Most of the people followed varnashrama. Greater importance was given to patriarchy and joint family.

Though they were the followers of the Vedic culture, the Kadambas encouraged Jainism and Buddhism. They gave charity to Jain temples and scholars at Hangal, Puligere and other places, and promoted the spread of Jain culture.



**Madhukeshwara Temple, Banavasi**

Buddhism was also flourishing in the Kadamba kingdom. It inculded Ajanta and Banavasi, two of the important centers of Buddism. The temples were centers of festivals and celebrations. Both Prakrit and Sanskrit received encouragement. First Prakrit and later Sanskrit became the court language. Kannada was the language of the people. The ancient Halmidi inscription shows the characteristics of the Kannada language which was in use in the 5<sup>th</sup> century. This has been the first inscription available in Kannada.

*The Malavalli inscription is in Prakrit language. The Talagunda inscription is the first Sanskrit inscription found in Karnataka.*

The Kadambas laid the foundation for architecture in Karnataka. They built many temples and basadis in Banavasi. During this period, educational centers like agraharas, brahmapuris and ghatikas were established. The main agraharas of that time were found in Talagunda and Balligave. The agraharas were like residential schools.

### **The Gangas (350 C.E. to 1004 C.E.)**

The rise and fall of the dynasty of Ganga rulers constitute an important chapter in early history of Karnataka. The founders of the Ganga dynasty claimed their descent from the Ikshvaku dynasty. They ruled from Kuvalala, Talakadu and Manyapura (today's Manne in Nelamangala, Bangalore Rural district).

The Gangawadi kingdom which began with the rule of Dadiga (also known as Kongunivarma), was ruled by 27 kings. Durvinita was a famous king of this dynasty. He was a brave warrior and scholar. He ruled for a long period and gained control of Punnata in order to strengthen his Kingdom. The Nallala copper inscription reveal that he constructed many lakes for the purposes of irrigation. He was a lover of Literature and wrote creative works in Sanskrit and Kannada. He even translated the Prakrit work 'Vaddakatha' of Gunadya in to Sanskrit.

### **The Contributions of the Gangas**

The king had a council of ministers to help him. The ministers supervised different branches of administration. The administration in the villages was very systematic. The village committee looked

after land revenue, justice, sanitation and defence. Agriculture was the main occupation. There were other occupations like weaving and black smithy. They had trade relations with other countries.

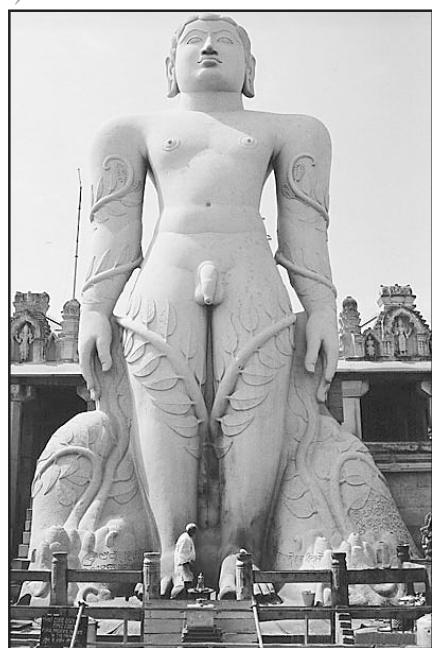
Though the society at the time of the Gangas had been divided into different sects and castes, they were all interdependent. The practice of a patriarchal undivided family was common. Social values like honesty, loyalty, bravery and patience were prominent among the people.

Chaityalayas, temples, mathas and agraharas were centers of education. There were Brahmapuris and Ghatikas for higher education. Talakadu, Shravanabelagola, Bankapura and Peruru have been named as centers of learning.

Since the Gangas were Jains, Jainism flourished here. Poojyapada, Vajranandi, Ajitsena and others popularized this religion. Further, they installed a 58 foot monolithic idol of Gommateshwara at Shravanabelagola and made it a famous centre. You must have heard about the Maha Mastakabhisheka of Gommateshwara which takes place once in every 12 years even to this day.

### **Bahubali-Gommateshwara**

Gommateshwara (Bahubali) of Sravanabelagola is a symbol of life of renunciation. The Statue of Gommateshwara was installed by Chavundaraya, the minister of Rachamalla IV. Among 100 brothers, Bharata was the eldest, Bahubali the youngest. After Bharata was coronated as the king, he finds a Chakraratna (a special wheel), won all the kingdoms and became an emperor. Even before that, all his brothers accepted his sovereignty. But when Bahubali did not accept it, both of them got ready to engage in a battle.



**Gommateshwara**

Bharata lost in drushti yuddha, jala yuddha and malla yuddha. At the end of malla yuddha, Bahubali lifted Bharata and spinning him in the air like a wheel, was about to throw him away, suddenly he lost all interest in everything around him, and put his brother down. He bowed to his brother and went away to meditate for nirvana, standing all the time. As he did not achieve salvation, he realises that as long as he stood in his brother's kingdom and meditated, he would not achieve nirvana. Later Bharata came and said that the whole kingdom was Bahubali's, and that he was ruling it on Bahubali's behalf. Then Bahubali achieved nirvana.

The Ganga kings encouraged art and architecture. They built beautiful temples and basadis. The Kapileshwara temple at Manne, Pataleshwara and Maruleshwara temples at Talakad, Kolaramma temple at Kolar, Nagareshwara temple at Begur and the statue of Gomateshwara at Shravanabelagola are examples of their architecture. The significant contribution of the Gangas has been the tall pillars called Manastambhas and Brahmanastambas.



**Pathaleshwara Temple in Talakadu**

The Ganga kings were lovers of literature and due to their encouragement to Sanskrit, Prakrit and Kannada languages, many works were written in these languages. Madhava II wrote commentary on Dattaka Sutra.

Durvinita wrote the Sanskrit work ‘Shabdavatara’, and translated Gunadhya’s ‘Vaddakathe’ into Sanskrit. Sree Purusha wrote ‘Gajashastra’ and Shivamadhava wrote ‘Gajashtaka’, a Kannada work. Poet Hemasena wrote ‘Raghava Pandaviya’, Vadibasimha wrote ‘Gadya Chintamani’ and ‘Shatra Chudamani’, whereas Nemichandra wrote ‘Dravyasara Samgraha’ and Chavundaraya wrote ‘Chavunda Purana’, Raya became famous.

### **EXERCISES**

#### **I Complete the following sentences :**

- 1 Simukha made \_\_\_\_\_ his capital.
- 2 The literary work written by Hala is \_\_\_\_\_.
- 3 The first inscription in Kannada is \_\_\_\_\_.
- 4 Banavasi, the capital of the Kadambas, is in today’s \_\_\_\_\_ district.
- 5 The prominent king among the Gangas was \_\_\_\_\_.
- 6 The literary work written by Chavundaraya is \_\_\_\_\_.

#### **II Answer in brief :**

- 7 Who was the last king of the Shatavahanas? How did their dynasty become weak?
- 8 Write about the art of the Shatavahanas.
- 9 What were the values which influenced the Ganga society?
- 10 Name four literary works of the period of the Gangas.

#### **III Activities :**

- 11 Discuss with your teacher the way to read inscriptions.
- 12 Visit a historical temple nearby and collect its details. Share the information with your classmates.

#### **IV Projects :**

- 13 Cultivate the habit of reading inscriptions.
- 14 Study one inscription and do a project on it.
- 15 Visit the capitals of the Gangas and collect information on them.

\* \* \*

# CHAPTER-10

## THE CHALUKYAS OF BADAMI AND THE PALLAVAS OF KANCHI



### The Chalukyas of Badami (540 C.E. – 753 C.E.)

#### After studying this chapter you learn :

- The beginnings of Chalukyas of Badami, the expansion of the empire under its foremost king pulakeshi II.
- Religious, social, military and judicial system.
- The extent of empire under the Chalukyas of Badami with the help of a map.
- The contributions of Pallavas of Kanchi to the field of literature, religious, art, architecture and the field of education.

Many powerful kings ruled Karnataka in the 6<sup>th</sup> century C.E. They were the Chalukyas of Badami. They established their supremacy in Karnataka for over two centuries continuously, and ruled with immense glory. The Chalukya dynasty occupies an important position in the history of South India and is one of the powerful dynasties of India.

The rule of the Chalukyas began in the 6<sup>th</sup> century and ended in the middle part of the 8<sup>th</sup> century. Raja Jayasimha is the founder of this dynasty. The most powerful and noteworthy emperor of this dynasty is Pulakeshi II. Overpowering the Gangas, Kadambas and Alupas, he extended his empire. The Pallavas were at the peak of glory in South Deccan. Since Mahendravarma did not accept the sovereignty of Pulakeshi, Pulakeshi defeated him. When Harshavardhana, who was ruling in North India, he advanced upto the banks of river Narmada, Pulakeshi stopped him and earned the titles of 'Dakshinapatheshwara' and 'Lord of the Peninsula' for his daring act.

Pulakeshi II could not rule the whole of his kingdom from one centre. He appointed his younger brother, Kubja Vishnuvardhana, as the provincial head of Vengi and Jayasimha as the head of Gujarat province. Later on, Chalukyas ruled the kingdom for around five centuries under the name of 'Chalukyas of Vengi'.



**Badami Chalukya Empire**

Hiuen Tsang visited the Chalukya capital. He has given a detailed description of Pulakeshi II and the Chalukyan kingdom. He has said that the king was just and kind. The army was disciplined and the soldiers were courageous warriors who were not afraid of death. The subjects were lovers of truth, contented, self-respecting, prosperous and loyal to the king. They respected the king very much, and the king loved his subjects.

Pulakeshi II was an optimistic emperor. He had friendly relations with foreign kings too. Arab historians report that he had diplomatic relations with the Persian king, Khusru II.

After some years, the Pallava king, Narasimhavarman I took revenge on the

Chalukyas for the defeat of his father Mahendravarman. He occupied the Chalukyan kingdom and captured Vatapi. During the time of the last Chalukya king, Kirtivarman, the Rashtrakutas captured this kingdom.

### **The Contributions of the Chalukyas**

The Chalukyas developed the Kannada land, language and culture, and protected its religion, literature, art and architecture. They were the ones who gave the name 'Karnataka' to this land. The reign of the Badami Chalukyas is a great and glorious period in the history of Karnataka. This age is noteworthy not only for its military exploits but also for its art and literature.

They ruled for around 200 years. The king was actively involved in administration. The kingdom was divided into districts called vishaya and the vishayadhipati used to look after it. The village was the smallest unit of the administration. The village leaders looked after the village accounts and administration.

The Chalukyas encouraged all traditions and sects like that of the Shaivas, Vaishnavas and the Jains. They supported the construction of Jain temples and Buddhist viharas too.

The Chalukyas of Badami patronized literature. Kannada and Sanskrit developed very well. Kannada was their state language. During this period, the tripadi form of poetry came into existence. Though there are no literary works produced in Kannada at this time, there are many inscriptions written in Kannada. One of the poem in the inscription of Kappe Arabhatta of Badami is in tripadi form.

### Poem in the inscription of Kappe Arabhatta

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ಮಾಧುಯಂಗೆ ಮಾಧುಯಂ  
ಬಾಧುಪ್ಪೆ-ಕಲಿಗೆ  
ಕಲಿಯುಗೆ ಎಪರೇತನಾ :  
ಮಾಧವನೇತನಾ ಪೆರನಲ್ಲ ||

ಒಳ್ಳೆಯವರಿಗೆ ಒಳ್ಳೆಯವನು. ಮಧುರಗುಣ  
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ಕಾಣಿಸುವವನು. ಈತನು ಅಸಾಮಾನ್ಯನಾದ  
ಮಾಧವನೇ ಆಗಿರುವನು.

The Sanskrit scholars of this time are Ravikirti, Vijiika and Akalanka. Kaumudi Mahotsav, was written by Pulakeshi II's daughter-in-law, poetess Vijiika, and Hara Parvatiya of Shivabhattaraka are important Sanskrit dramas.

The Chalukyas of Badami were great builders as well as art-lovers. They built beautiful temples at Badami, Aihole and Pattadakallu. They developed a special style of sculpture called 'The Chalukya Style' in Indian architecture. They built cave-temples in the rocks of Badami. They encouraged many artists and sculptors.

The best temples in the Chalukya style are in Aihole and Pattadkallu. Aihole was one of the cradles of temple architecture. Evolution of the series of temples architecture was first experimented here. This style found its full expression at Pattadakallu. Thus we see the famous temples of Lokeshwara (Virupaksha) and Trilokeshwara (Mallikarjuna) here. We get conclusive proof of the Chalukyas' artistic achievement in the towering sculptures of Vishnu, Varaha, Harihara and Ardhanarishwara in the caves of Badami. Even painting received encouragement. The Ajanta paintings of this period are world-famous.



**Virupaksha Temple, Pattadakallu**

### **The Pallavas of Kanchi (350 C.E. to 895 C.E.)**

The Pallavas are the first kings of Tamilnadu. They enjoyed a special place among the dynasties which ruled South India. They ruled from the 4<sup>th</sup> century to the 9<sup>th</sup> century. In the beginning, they were the officials of the Shatavahanas. When the Shatavahana dynasty declined, the Pallavas declared themselves kings of the territory.

Shivaskandavarma was the first king of this dynasty. The Pallavas and the Kadambas harboured perpetual enmity towards each other. Subsequently, Pulakesh II of the Chalukya dynasty defeated Mahendravarma of the Pallava dynasty. Narasimhavarma I who came later, was the most famous of the Pallava kings. He took revenge on the Chalukyas by defeating Pulakeshi II and capturing Vatapi. These daring acts won him the titles of Mahamalla and Vatapikonda. Hiuen Tsang had visited Kanchi during his reign. Narasimhavarma built a city on the sea coast near Kanchi and named it Mahabalipuram. Many monolithic temples were built by him. During the reign of Aparajita Pallava, Aditya of the Chola dynasty put an end to the Pallava rule.

## The Contributions of Pallavas

They introduced systematic administration in Tamil Nadu. Their contributions are significant in literature, religion, art, architecture and education. When the Chalukyas reigned in Vatapi and the Pallavas in Kanchi, it was a heroic age in the South. Their kingdom was strong and organized. There were ministers and provincial officers. The kingdom had been divided into mandala, nadu and grama. The gramasabha dealt with the problems of the village. The gramabhojaka looked after the village administration.

The Pallavas encouraged both Sanskrit and Tamil. Kanchi was the center of Sanskrit literature. Bharavi (the author of Kiratarjuniya) and Dandi (the author of Dashakumar Charita) were the poets in the Pallava court. King Mahendravarma himself wrote a social drama, 'Matta Vilasa Prahasana' and a book Bhagavadujjuka. The Pallavas encouraged all religions.

The early Pallava kings were Buddhists. The great scholar of Nalanda University, Dharmapala, was born in Kanchi. Since Mahendravarma was a follower of Jainism, there were many Jains in the kingdom.



**Mahabalipuram Pancharatha**

*Shaiva and Vaishnava religious sects became popular during the 7<sup>th</sup> century. 63 Great saints called Nayanmars propogated the Shaiva faith. 12 Alwars saints propogated the Vaishnava faith.*

This age witnessed the rise of the Bhakti movement. It also supported the revival of the Vedic religion. Slokas were written in Tamil. These have become the treasure of Tamil literature.

The Pallavas were lovers of art and architecture. They built many temples in their kingdom, which are noteworthy for their artistic skill. The Pallava architecture can be classified into temples that have been carved out of stone, and temples with structural pattern.

Many temples carved in rocks can be seen in Mahabalipuram. Wonderful monolithic sculptures have been carved in these temples. They tell the stories from Mahabharata and Bhagavata. The Pancharathas are the famous monolithic temples. The carving of 'Arjuna's Meditation' has emerged as an excellent work of art.

The temples of Kailasanath, Ekambarnath and Vaikunta Perumal at Kanchi, and the coastal temple at Mahabalipuram are excellent examples of ancient Indian architecture.

The temples became centres of religious and artistic activities. The rural folk assembled in the courtyard of the temples in the evenings and discussed many issues. The people came here during their leisurely hours and listened to the Puranas or sang devotional songs. In this manner, the temples became cultural and educational centres.

The Pallavas had a good naval force. Merchants had trade relations with South Asian countries like Malaya, Indonesia and others. We can see the influence of Indian language, faiths, traditions and culture in those countries.

## **EXERCISES**

### **I Fill in the blanks :**

- 1 The Pallava king who was defeated by Pulakeshi is \_\_\_\_\_.
- 2 The dynasty which gave the name *Karnataka* is \_\_\_\_\_.
- 3 The writer of the Sanskrit drama *Hara Parvatiya* is \_\_\_\_\_.
- 4 The Pallava king who earned the title *Vatapikonda* is \_\_\_\_\_.
- 5 The painting *The Meditation of Arjuna* is in \_\_\_\_\_.

### **II Answer the following questions in brief :**

- 6 How did Pulakeshi II extend his empire?
- 7 Describe the administrative system of the Chalukyas.
- 8 The Chalukyas were lovers of literature. Explain with examples.
- 9 Name the Pallava kings who ruled from Kanchi.
- 10 How did the Pallavas encourage Sanskrit and Tamil?

### **III Activities :**

- 11 Discuss in groups the contributions of the Chalukyas to Kannada language.
- 12 Learn about *tripadis* from your Kannada teachers and by reading Kannada books.
- 13 Pay a visit to Kanchipuram and Mahabalipuram.

### **IV Projects :**

- 14 Pay a visit to a place of historical importance and collect information about it.
- 15 Draw pictures of temples, collect pictures and form an album.

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# **CHAPTER-11**

## **THE RASHTRAKUTAS OF MANYAKHETA AND THE CHALUKYAS OF KALYANA**



**After studying this chapter you learn :**

- Dantidurga, the founder of Rashtrakuta dynasty and Amoghavarsha its most famous ruler.
- The contributions of Rashtrakuta's to administration, literature and architecture.
- The administration and literary contributions of Kalyana Chalukyas.
- The extent of Rashtrakuta territory from the map of India.

### **The Rashrakutas (753 C.E. to 973 C.E.)**

The Rashrakutas were Kannadigas. They were the tributary kings of the Chalukyas in the beginning. Later they became famous as the rulers of the vast kingdom in the South. The Rashrakuta age is a glorious epoch in the history of Karnataka. The credit of taking the glory of Karnataka to its peak goes to them. Their kingdom, which extended from the Narmada river in the North to the Cauvery river in the South, has also been immortalized by the Kailasanath temple at Ellora and by the first Kannada work, Kaviraja Marga.

The kingdom which began with Dantidurga, continued with Krishna, Govinda II, Dhruva, Govinda III, Amoghavarsha and others, and reached its peak of glory. The early reign of Amoghavarsha had to face many obstacles. But he was not interested in feuds and desired peace. Hence he got rid of the enmity by developing matrimonial relations with the Gangas and the Pallavas. Since he was a peace-loving king, he had to give up some territories in the north. The ports of the west coast were busy trading centres and enjoyed great prosperity by developing trade relations with Persia and Arabian. Many travellers and merchants visited the kingdom during this period. Prominent among them was the Arab traveller Sulaiman. He has praised Amoghavarsha as 'One of the four powerful emperors of the World.'

Amoghavarsha was brave and peace-loving, and encouraged all faiths. After him, Krishna II, Indra III and Krishna III ruled the kingdom.

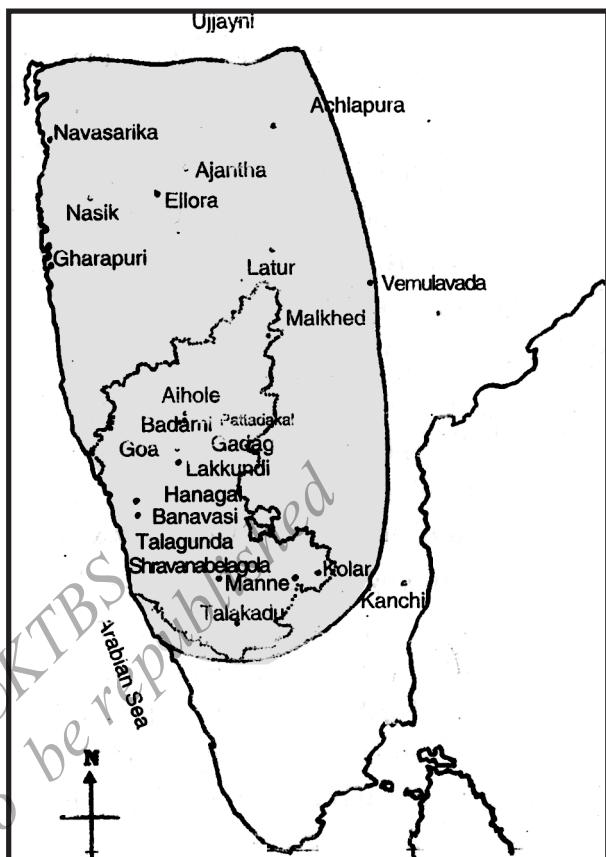
The weakness in administration during the period of Karka II paved the way for the rise of his tributary Tailapa II of the Kalyana Chalukyas and brought the end of the Rashtrakuta rule.

### **The Contributions of the Rashtrakutas**

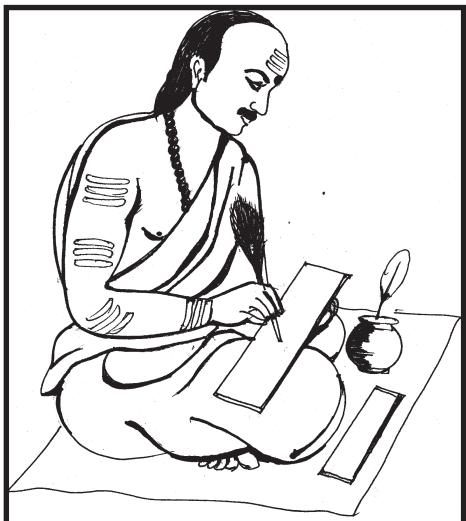
The kingship among the Rashtrakutas was hereditary. There used to be a Council of Ministers to assist the King. There would be a prominent person in the Council of Ministers appointed as the Mahasandhivigrahi to look after the foreign affairs. For the purpose of administrative convenience, the kingdom was divided into Rashtra (Mandala), Vishaya, Nadu and Grama.

The leader of the grama was called gramapati or prabhugavunda. He was the leader of the village army too. He was assisted by the village accountant. There were grama sabhas also. There used to be an official called nadagavunda in the nadus. Similar officials would be there in the vishayas and rashtras. The vishayapati and the rashtrapati were the officers for the vishaya or the district and the rashtra respectively.

Land revenue, toll on goods, houses, shops, and tax on occupations like operating ferries, formed the income of the kingdom. Foreign trade also brought lot of income to the state in the form of taxes.



**The Rashtrakuta Empire**



**Nadoja Pampa**

The Rashtrakutas encouraged both Kannada and Sanskrit. Excellent works were written in Sanskrit. Trivikrama wrote Nalachampu, the first champu work in Sanskrit literature. Halayudha wrote 'Kavirahasya'. Jinasena, mathematician Mahaveeracharya, grammarian Shakatayana, Gunabhadra, Veerasena were in Amoghavarsha's court. Pampa, known as Adikavi wrote Adipurana and Vikramarjunavijaya in Kannada. Ubhayakavi Ponna composed 'Shanti Purana'. Shrivijaya, who was in the

court of Amoghavarsha, wrote 'Kavirajamarga'. This is the first work in Kannada. It is a master piece. All these reveal how Kannada literature has developed from ancient times.

*The Kannada University, Hampi, has been awarding the title of Nadoja in memory of the first poet, Pampa, to veteran achievers in Karnataka every year.*

*Another noteworthy prose work of the Rashtrakuta period is Vaddaradhane. The author of this is Shivakottacharya. It is a collection of Jain religious stories. Special importance has been given to use of native Kannada words here. There is liveliness in plot, structure, characterization and dialogue. This is a great prose work belonging to the pre-Pampa age, and enjoys eternal significance in the history of Kannada literature.*

Agraharas and mathas were the prominent educational centres in those days. Knowledge was imparted about Sanskrit, the Vedas, astrology, logic and the Puranas. Salotgi in Indi taluk of Bijapur district was one of the leading centres of learning.

The Rashtrakuta kings were devotees of Shiva and Vishnu, and have built many Shiva and Vishnu temples. Jainism had received

royal patronage and became a wide-spread religion. Apart from these even other religions were encouraged.

The Rashtrakuta kings were patrons of art. Their great contribution to Indian art can be seen in the Ellora and Elephanta cave temples. The Kailashnath temple at Ellora built by Krishna I is a monolithic wonder. This temple has been carved from a rock 100 feet high, 276 feet long and 154 feet wide. Nearby is the famous Dashavatara cave temple. The sculpture at the Elephanta caves near Mumbai is a milestone in the Rashtrakuta sculpture. The statues of Ardhanarishwara and Maheshamurti (three-murthy) have been exquisitely carved. The structural Rashtrakuta temples are in Shiravala of Raichur district. There is a beautiful Jain temple at Pattadakallu.



**Kailasanatha Temple, Ellora**

### **The Chalukyas of Kalyana (973 C.E. - 1189 C.E.)**

The period of the Chalukyas of Kalyana enjoys an honourable place in the history of India. They gave special encouragement to art, literature and education. They provided opportunities for the development of Kannada and Sanskrit. They gave patronage to famous

Kannada poets like Durgasimha, Ranna, Nagachandra and others. Vachana literature came into prominence during this period. The credit of building a new city called Kalyana and making it the capital goes to Someshwara-I.

Tailapa-II who had been a tributary king of the Rashtrakutas, defeated the Rashtrakuta king, Karka -II, and, captured Manyakheta, then he established the kingdom of the Kalyana Chalukyas. He ruled for approximately 24 years. Someshwara - I is one of the important kings of this dynasty. He built a new city called Kalyana and made it his capital. This is today's Basava Kalyana in Bidar district. Though Someshwara-I had to wage many wars, he took care to see that his kingdom did not shrink in any way. He defeated Rajadhiraja Chola in 'Koppam'.

Vikramaditya-VI, the son of Someshwara-I, is the greatest king of this dynasty. He was an extremely courageous warrior and excellent administrator. He began the 'Chalukya Vikrama era' in 1076 C.E. He suppressed the revolt of the Hoysala King Vishnuvardhana. He had established contact with the Srilankan King Vijayabahu.

*Vignaneshwara (the author of Mitakshara) who lived during his time has remarked that there was never a great city like Kalyana in the past and can never be in the future. The king like Vikramaditya has never been seen nor heard of.*

The kingdom began to decline during the period of kings who came after Vikramaditya VI and Someshwara III. It became very weak during the period of Someshwara IV and Kalachuri Bijala occupied Kalyana and began to rule it. It was at this time that the social revolutionary Sri Jagajyoti Basaveshwara came to the limelight. He devoted his life to spreading the values of the Veerashaiva sect to the common people.



Coins

*Mints were set up in Lakkundi and Sudi to mint coins like gadyana, pana, drumma, pon and suvarna.*



**Jagajyothi Basaveshwara**

**Basaveshwara preached in three forms:** soft advice, harsh criticism, strict warning. He taught that surrendering oneself to Shiva with total devotion was the only path to salvation. He declared that work is worship. He established Anubhava Mantapa in 1162 C.E. He wrote his vachanas in colloquial Kannada.

### **The Contribution of the Kalyana Chalukyas**

Like the Chalukyas of Badami, the Chalukyas of Kalyana too have made special contributions in various fields. The kingship was hereditary. The kingdom was divided into provinces (mandala) and small provinces (nadu). There were kampanas (today's hobli) to enable smooth functioning of administration of villages.

Land revenue was the main source of income for the kingdom. The other sources of income included sales tax, toll and tax on professions. There was an officer called 'Kaditavergeade' appointed to look after collection of land revenue. There were different guilds in trade and business.

Literature received encouragement during the period of the Chalukyas. Kannada literature prospered with the support of Jain scholars. The notable works of this period are 'Gadayuddha' (Sahasa Bheema Vijaya) written by Ranna, 'Panchatantra' written by Durgasimha, 'Vikramankadeva Charita' composed by Bilhana, 'Dharmamruta' composed by Nayasena and the legal work, 'Mitakshara', authored by Vignaneshwara. 'Manasollasa' written by King Someshwara III is considered as a sanskrit encyclopaedia.

The unique contribution of the Chalukyan period has been the Vachana literature. Akkamahadevi, Allamaprabhu, Machayya and others were leading vachanakaras.

The Chalukyas were not only lovers of literature but also patrons of art. Their contribution in the field of art is vast. Famous temples like the Kashi Vishweshwara temple at Lakkundi, Mahadev temple at Itagi, Mallikarjuna temple at Kuruvatti, Trikuteshwara temple at Gadag are noteworthy examples of their art. The kings of this dynasty built innumerable temples and contributed to making the Kannada land home to fine arts.

Music and dance forms too prospered. During their period Musicians and dancers used to be appointed to serve in the court. Queen Chandralekha patronised many music scholars and dancers. 'Manasollasa' and the work of Jagadekamalla II 'Sangeeta Chudamani' discuss many topics related to music, dance, art and jewellery.



**Kashi Vishweshwara Temple, Lakkundi**

## **EXERCISES**

### **I Fill in the blanks :**

1. The founder of the Rashtrakuta dynasty was \_\_\_\_\_.
2. The Chalukya king of Kalyana who was responsible for the defeat of the Rashtrakutas was \_\_\_\_\_.
3. The author of 'Kavirahasya' is \_\_\_\_\_.
4. The famous poem written by Ponna is \_\_\_\_\_.
5. The most famous king among the Kalyana Chalukyas was \_\_\_\_\_.
6. The person who can be called 'the pioneer of the social revolution' is \_\_\_\_\_.

### **II Answer the following questions :**

7. How was the administrative system of the Rashtrakutas?
8. Write about the educational system under the Rashtrakutas.
9. Write about the Ellora temple.
10. How did the Kalyan Chalukyas encourage literature?

### **III Activities :**

11. Share from the experiences of students or teachers who have visited temples of the Rashtrakuta period.
12. Go on a trip to Manyakheta or Ellora.

### **IV Projects :**

13. Discuss on Ellora in peer groups and write an essay on it.
14. Collect pictures of Manyakheta.
15. Write an essay on the life of Basavanna.

\* \* \*

## CHAPTER-12

# THE CHOLAS AND HOYSALAS OF DWARASAMUDRA



**After studying this chapter you learn :**

- About expansion of chola empire and the contributions to different fields.
- About the establishment of Hoysalas, contribution to religious, literature, art, and architecture field.

### THE CHOLAS (850 C.E. - 1279 C.E.)

After the Pallavas, the Cholas secured a firm hold on many areas in Tamilnadu, Andhra and Karnataka and ruled from the 9<sup>th</sup> century to the 13<sup>th</sup> century. To them goes the credit of spreading Indian culture in foreign lands. They constructed grand temples.'Brihadeeshwara' temple is their contribution. They became famous by encouraging Tamil literature.

The Cholas were under the Pallavas for sometime and later became independent. According to Sangam literature, Karikala Chola is the founder of this dynasty. Vijayalaya Chola revived the kingdom and made Thanjavur as his capital.

An important king among the Cholas was Rajaraja I. He was a brave and great warrior. He was an able administrator. As the founder of the Chola empire, he strengthened its foundations and expanded his kingdom. He overpowered the Cheras, Gangas and Pandyas. He built a naval force. He captured Sri Lanka. We can see the domination of the Tamilians in Malaysia and Singapore. Their influence in the political, economic and cultural activities of those countries can be seen. They began overseas trade which continued till date. The Brihadeeshwara temple built by Rajaraja Chola I in Thanjavoor, is a very famous one.

The Chola empire weakened during the period of Rajendra Chola III, and the Pandyas could overpower them easily.

## The Contribution of the Cholas

The Cholas had set up an able and efficient administrative system. The kingdom had been divided into mandalam, kotwangi, nadu, kurram or community of villages and tara-kurram. There was a committee of villagers called Ur in every village.

The foremost quality of the Chola administration was the development of the self-governance of the village. The grama sabhas were the first sabhas. Tara-kurram was a village. Every kurram had a village committee named mahasabha. This was also called perumguri and its members perumakkal. The members were chosen through election. Only Sanskrit scholars and rich people were allowed to stand for election.

One-sixth part of the land yield was being collected as tax. Special attention had been given to the irrigation system. The Cholas constructed many lakes, and the Bellandur lake near Bangalore is one of these. They built a huge pond in Gangaikonda Cholapuram.



**Brihadeeshwara temple, Thanjavoor**

The Cholas were Shaivites, and they built many Shiva temples. The Brihadeeswara temple in Thanjavur is 500 feet tall and it is in a courtyard 250 feet wide. Its shikara is 200 feet tall. The Choleshwara temple was built by Rajendra Chola.

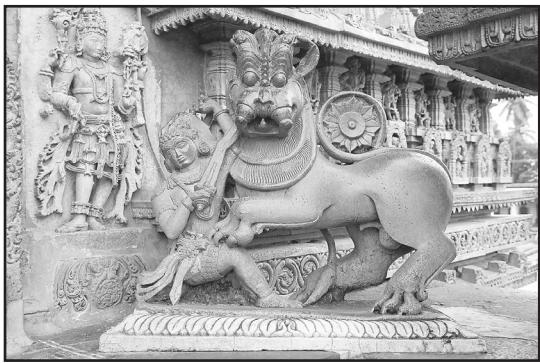
The Aprameya temple near Channapatna, the Choleshwara temple in Begur near Bangalore and the Mukteshwara temple near Binnamangala are the temples built by the Cholas in Karnataka. The temples used to function as economic and cultural centres. The idols of Shiva, Ganapati, Vishnu, Durga and Kartikeya of this time are famous.

The Cholas established many agraharas to encourage education. The Uttaramerur agrahara is famous among these. The temples were centres of education. They were also centres of religious activities. This was a period in which Tamil literature found an all-round development. Noteworthy works are Ramayana written by Kamba, Periya Purana composed by Sekkilar and Thirukkadeva's Jeevaka Chintamani.

### **THE HOYSALAS OF DWARASAMUDRA (984 C.E. TO 1346 C.E.)**

After the Chalukyas became weak in Karnataka, it was the Hoysalas who became strong. The founder of this dynasty, Sala, on the order of a Jain monk, Sudatta, fought with a tiger and, killed it near Sosevuru village (today's Angadi) in Mudigere taluk of Chikmagalur district. It inspired the people to exclaim 'Hoysala!', and he established this empire. These kings made significant contributions to literature, education, art, architecture and irrigation.

Vishnuvardhana was the important Hoysala king who came after Nrupakama, Ereyanga and Ballala. As a great king of this dynasty, he won Gangavadi from the Cholas and earned the title 'Talakadugonda'. In order



**The emblem of the Hoysalas**

to commemorate this victory, he built the Kirtinarayan temple in Talakadu and the Chennakeshava (Vijayanarayana) temple at Belur. He tried to expand his kingdom but was defeated by the Chalukyan king Vikramaditya VI.

Ramanujacharya could not spread the message of Vishishtadvaita sect in the Chola kingdom and came to Bittideva's (Vishnuvardhana) court, and under his patronage, spread his faith in the whole of Karnataka.

This kingdom declined during the reign of Ballala III. During the same period, the Vijayanagara empire came into power.

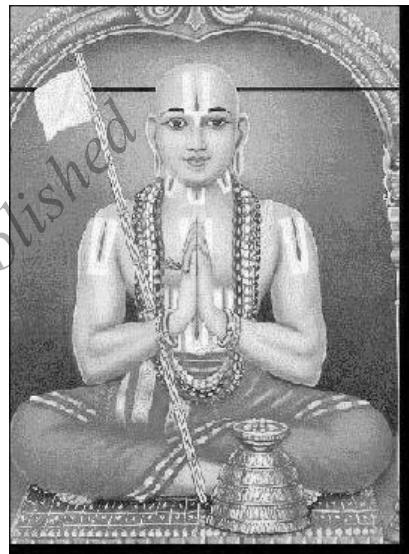
### **The Contributions of the Hoysalas**

The Hoysalas had brought into practice provincial system of administration. The power of ruling was given to the Princess, Queens and the Royal family. The officials looked after the administration of the nadu and vishayas. In the villages, there used to be the representatives of the government like the gowda, senabova, talawara and others.

In order to encourage agriculture, the Hoysalas built innumerable lakes like the Shanti Sagara, Ballalaraya Samudra, Vishnu Samudra etc. In the cities, there used to be guilds among the people following different occupations. Land revenue was the main source of income for the kingdom. A unique feature of this society was that the king used to have a special army of guards called 'garuda'. When the king died, these guards would also sacrifice their lives. (suicide squads)

Agraharas, mathas and temples were centres of education. There were excellent educational institutions at Melukote, Salagame, Arasikere and other places. Here study of the Vedas, Vedashastras, Kannada and Sanskrit used to be carried on.

Kannada literature flourished immensely. Rudrabhatta wrote



**Ramanujacharya**

'Jagannatha Vijaya', the great poet Janna wrote 'Yashodhara Charite', Harihara composed the Champa poem 'Girija Kalyana', Raghavanka authored 'Harishchandra Kavya' and Keshiraja wrote 'Shabdamani Darpana'. Even in Sanskrit, memorable works composed were Sreebhasya by Ramanujacharya and Parasharabhatta, composed Sri Guna Ratnakosha.

During the period of the Hoysalas, different religions like Jainism, Buddhism, Shaivism, Vaishnavism, Veerashaivism and Srivaishnavism were encouraged.

**This poem from the Belur temple advocates communal harmony:**

ಯಂತ್ರೇಶಾಘಾರ್ಹಿತಿಭಾರ್ತಿಭಾರ್ತಿ  
ಕಿಂಲಿನಿಷಾಘಾ ಯದ್ರಭಾರ್ತಿಪುಷಾಸದಂತಿರ್ವಿಷ್ಯಾಭಾತಿ ಲ್ರಿರ್  
ಕ್ರಿರಿಡಾ ಜ್ಯಿಸತಾಸಾಮಿತಿಂಪಿರಿಖಿಮಾರಾಷಾಕಾಣಾಯಿಯಾವಿರಿತಾರುವಾಂ  
ಪಿರ್ವಳಂಬಿತಿರಿಪ್ರಾವಾ॥

ಯಂ ಶ್ವಾಸಮುಪಾಸತೇ ಅನ ಇತಿ ಬ್ರಹ್ಮೈತಿ ನೇದಾಂತಿನೋ  
ಬೊದ್ದಾ ಬುಧ್ಯ ಇತಿ ಪ್ರಮಾಣಾಪಚಿನಃ ಕರ್ತೀತಿ ಸ್ವಯಾಯಿಕಾಃ  
ಅಹರ್ತೀತಿ ಹ ಜ್ಯೇಸಾಸನಪ್ರಾಪಿತಿ ಕರ್ವೇತಿ ಮೀಮಾಂಸಕಾಃ  
ಸ್ವೇಣಂ ಸ್ವೇ ವಿದ್ಧಾತು ವಾಂಘಿಕಲಂ ಶ್ರೀ ಕೇಶವೇಶಸ್ವಾ ||  
  
ಶ್ವೇದರು ತಿಪಂಿದು, ದೇದಾಂತಗಳು ಬ್ರಹ್ಮಾಂದಿರು, ಬೊಧ್ಯ ರು ಬುಧ್ಯ  
ನೆಂದು, ಪ್ರಮಾಣಾದಲ್ಲಿ ಸಮರ್ಪಾರಾದ ಸ್ವಯಾಯಿಕರು ಕರ್ತ್ಯಾಪಿಂದು,  
ಜ್ಯೇಸರು ಅಹರನೆಂದು, ಮೀಮಾಂಸಕರು ಕರ್ವಾಪಿಂದು ಯಾವಣನ್ನು  
ಉಪಾಸನೆ ಮಾಡುವೆಂಬೇ ಉವನೇ ಅದ—ಈ ಶ್ರೀ ಕೇಶವನೆಂಬ ಕಾಶನ  
ನಿಮಗೆ ಇಷ್ಟಾಧರವನ್ನು ಪಾಲಿಸಲಿ.

The architecture of the Hoysalas is world-famous. The Hoysalas got their innumerable temples built in soap stone. There are five features that can be seen in all their temples. They have the star-shaped sanctum sanctorum, upapeetha (jagati), decorative panels, shikara and pillars.

There are beautiful idols of Madanikas (Shilabalikas) on the brackets of the pillars of Chennakeshava temple at Beluru.



**Chennakeshava Temple, Beluru**



**A shilabalike**

The military general, Ketamalla, built the Hoysaleshwara temple at Halebidu. The Keshava temple constructed by Somadandanayaka at Somanathapura is famous. There are many temples and basadis in Arasikere, Govindanahalli, Doddagaddavalli and Bhadravati. All these are noted for their extremely delicate carving. The Hoysala architecture has influenced all other architectural styles of the later years. Dasoja, Chavana, Jakana and Dankana were some of the famous sculptors of this time.

### **EXERCISES**

#### **I Fill in the blanks :**

- 1 The capital of the Cholas was \_\_\_\_\_.
- 2 The committee of the villagers in every village during the period of the Cholas was \_\_\_\_\_.
- 3 The most famous Chola educational centre or agrahara was \_\_\_\_\_.
- 4 The temple in Begur near Bangalore built by the Cholas is \_\_\_\_\_.
- 5 The army of bodyguards during the time of the Hoysalas was \_\_\_\_\_.
- 6 The poetic work written by Raghavanka \_\_\_\_\_.

#### **II Answer in brief the following questions :**

- 7 Who was the founder of the Chola kingdom?
- 8 Write a note on the significant features of the Chola administration.
- 9 Describe the encouragement given by the Hoysalas to literature.

#### **III Activities :**

- 10 Discuss in class the visit you paid to a nearby temple.
- 11 Learn more about the Belur *shilabalikas* from your teacher.

#### **IV Projects :**

- 12 Visit Belur and Halebidu and write a project-report on it.
- 13 Learn in detail about Hoysala art.

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## **POLITICAL SCIENCE**

### **CHAPTER-13**

#### **MEANING AND IMPORTANCE OF POLITICAL SCIENCE**



**After studying this chapter you learn :**

- Understand the concept of political science.
- Explain the process of development in political science.
- Know and recognise the political thinkers and their contributions.
- Know the importance of political science.

Political science is one of the social sciences dealing with the political activities of man. It deals with the state and government. It studies the origin and nature of state and forms of political institutions. The study of state is the main subject matter of political science.

As a subject of the study of political science began with the Greeks. Though Egyptians, Babylonians, Persians, Indians and Chinese have mentioned their ideas or thoughts about politics much earlier to Greeks they failed to develop it as a systematic study. Politics was given status of an independent science by Greeks. Greek philosophers like Socrates and his disciple Plato were great political thinkers. Plato in his famous book "Republic" for the first time discussed the nature and functions of state and government. Aristotle, the ancient Greek thinker and the student of Plato is recognized as the 'Father of Political science' for his valuable contributions to its growth and development. He wrote the first treatise on political science called "The Politics". In this famous book Aristotle discussed the origin, development and functions of state Kautilya's work on economics was also had more information about political principles.

Greeks used the term 'politics' for the study of state. The term 'Politics' is derived from the Greek word 'polis' which means 'city-state' and therefore a subject which deals with the affairs of city-state and its working was called politics by ancient Greece. However in modern times scholars have preferred to use the term 'political science' for this study.

Now a days the word 'Politics' refers to the practical aspect of the problems of the state and government. More exactly, it means the actual political activities taking place in a state. Current problems of the state, election campaigning, political party activities, the day to day happenings in the state legislature or in the union parliament in which the politician takes part, etc comprise politics. Whereas, the discipline of political science is a study of origin and development of the state, the functions of government, rights and duties of citizens etc. Hence the proper title of this subject of study must be 'political science'.

It is the study of the state in the past, present and future, of political organization, political functions and political theories.

Thus we find that the state, government and other problems connected with them fall within the purview of political science.

### **Importance of Political Science**

The knowledge of Political Science is most essential in the present age. The progress and development of a state depends upon the thinking, knowledge and Political involvement of the people.

- Political Science helps to understand the birth and growth of a state. It provides information about the type of Governments and Political activities involved in the functions of the State.
- Political Science provides information about the origin and development of ideas such as Monarchy, freedom, justice, laws, equality, good government, wars and peace etc.
- It provides information about the structure and functions of the state and central governments.
- In the light of the past and the present activities of the government, Political Science helps to plan the future activities of the state. It also helps to establish a modern welfare state.
- Political Science provides knowledge about the Constitution and laws of the state.

- Political Science helps to understand about the organs of the government i.e., Legislature, Executive and Judiciary and their functions.
- Political Science develops Political consciousness among the people. It keeps the government and the people politically alert and active.
- The knowledge of Political Science helps leaders and civil servants to understand and solve the problems of the people effectively.
- The knowledge of political science helps to raise good leadership and good citizens.
- Political Science helps to understand the important Political institutions like political parties, federal system and local bodies.
- Political science deals with ideologies which inspire and influence political involvement of people.
- Political Science provides the knowledge of international relations especially the occurrence of wars among nations and the importance of peace and co-operation.

Thus the study of Political Science helps us to understand the need for a state, good governance of the state, the role of the leaders and people's participation. It helps the people to become good, responsible, cultured, and active citizens. The knowledge of Political science contributes to the establishment of a just, peaceful, progressive and a happy state, which is the dream of millions and millions of people for a long time every where.

## **EXERCISES**

### **I Fill up the blanks:**

- 1 The word Politics was derived from the Greek word \_\_\_\_\_.
- 2 'Republic' was the work of \_\_\_\_\_.
- 3 Aristotle wrote a book on political science and it is called \_\_\_\_.
4. Kautilya's work relating to political science is \_\_\_\_\_.

### **II Answer the following questions :**

- 5 What is political science?
6. Who began the systematic study of Political Science ?
- 7 Who is called the Father Political Science?
- 8 Give definition of Political Science.
- 9 Mention use of the study of Political Science?

### **III Activities :**

- 10 Prepare an album highlighting the nature of Political system in the early period.
- 11 Discuss the statement of Aristotle given in the book in your classroom with the help of your teacher.
- 12 'The social needs of man led to the rise of the state' – is it so ? Arrange a talk on the topic in your classroom.

### **IV Projects :**

- 13 Imagine that you are a member of ancient Greek city state and discuss any one particular issue of the city state.
- 14 'Dictatorship suppresses the freedom of an individual and democratic institutions'- Collect information and prepare charts.
- 15 Collect information on political ideas found in our epics.

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## CHAPTER-14

# CITIZEN AND CITIZENSHIP



### **After studying this chapter you learn :**

- Know the meaning of citizen and citizenship.
- Differentiable between citizen and citizenship.
- Differentiable between citizen and alien.
- Know the methods of acquiring citizenship and reasons for losing citizenship.

### **Meaning**

The meaning of citizenship varies from time to time. In ancient Greece the word citizenship had a narrow meaning. Then, it referred to those persons who took direct and active part in the administration of the state. In ancient Greece, citizenship was a privilege conferred upon selected few. Women, manual workers and slaves were denied all the rights of citizenship.

But in modern times the term citizenship conveys broader meaning. The term citizen, in modern times, refers to a person who is a fulfledged member of the state, enjoying all rights- civil, political and economic and owing allegiance to the state to which he belongs.

Vattel defines a modern citizen as a member of a civil society, bound to it by certain duties, subjected to its authority and an equal recipient of its advantages. Accordingly a citizen is a member of a state who, owes allegiance to it and enjoys the protection and benefits granted by it. Thus a citizen is a permanent member of the state, who possesses civil and political rights and owes allegiance to the state to which he belongs.

There is a difference between subjects and citizens. Before 1947 we were the subjects of the British. After independence we became the citizens of India. Generally people who belong to and live in a state are its citizens. To be a citizen proper one has to fulfil certain conditions which are legal. There is a relationship between the state

and the citizens. The state provides protection and certain facilities to its citizens while the citizens in turn maintain the state, obey the laws and owe their allegiance to the State. A citizen is one who is a member of a state and enjoys certain benefits in his state. They are:

- He enjoys security and gets protection from the State.
- He enjoys a peaceful life as the state ensures law and order.
- In modern times under social welfare schemes he enjoys benefits like education, health, insurance, settlement, employment and such others provided by the state.
- He enjoys both the civil and political rights.
- He enjoys the fundamental rights guaranteed by the State.
- He can participate in the Political processes like voting and contesting in the elections.
- He is eligible to occupy certain offices such as those of the President of India, Vice-President, Judge of Supreme court, High Courts and such others.
- He is eligible for recruitment to all public services.

### **Difference between a citizen and an alien**

A citizen is a member of the state. He owes allegiance to it. He is protected by the state and enjoys civil and political rights. An alien, on the other hand, is one who has come to reside temporarily in a state. He owes allegiances to the state of his origin. He is a foreigner in the state of temporary residence but a citizen of the state from which he has come.

The chief differences between the citizen and alien are the following:

1. Citizens are permanent residents of their state. Aliens are temporary residents.
2. Citizens enjoy political rights, aliens are not given political rights like right to vote, right to contest election, right to hold public offices, etc.

3. Citizens owe allegiance to their state. They are bound to fulfil their obligations to the state. An alien is a foreigner who is a citizen of another state. He should respect and follow the laws of the state in which he is temporarily living.
4. A Citizen cannot be driven out of his state. An alien can be asked to leave the country of temporary residence for various reasons such as illegal activities, expiry of visa period, etc..

### **Methods of acquiring citizenship**

There are two ways of acquiring citizenship namely- by birth and by naturalization.

**1. By Birth:** The most important mode of acquiring citizenship is by birth. The great bulk of citizens in every state are citizens by birth. Birth within the territory entitles a person to citizenship.

**2. Naturalisation:** Citizenship can also be acquired through naturalization. According to this method, an alien can become a citizen after fulfilling certain conditions. Though these conditions vary from state to state, some of the general principles which are observed may be summed up as follows:

- a) **Domicile or Residence :** Long residence in a foreign state entitles a person to acquire the citizenship of that state. In England and USA it is five years. In France it is ten years.
- b) **Marriage :** A woman acquires the citizenship of her husband's country when she marries a foreigner. But the husband does not get the citizenship of his wife's country. The condition of marriage in Japan and some other countries are quite different.
- c) **Foreign service :** A person appointed in the service of a foreign state may be granted the citizenship of that country. Many countries do not permit the foreigners to serve in the public service for suspicion of their loyalty.
- d) **Application :** In all states an alien may be granted citizenship if he applies for it and satisfies certain conditions. Usually, all states demand the applicant to be solvent and be a person of good moral character.

- e) **Property** : A person who purchases property in a foreign country, desires to become a citizen of that country may be granted the citizenship. In Mexico there is such provision. But in recent times the foreign countries may not provide opportunities to foreigners to buy landed property.

### **Methods of acquiring citizenship in India**

Parliament is the sole authority to legislate the laws on citizenship in our country. State legislatures have no powers in this matter. The Citizenship Act was enacted by the Parliament of India in 1955 and it elaborates the provisions for the acquisition and termination of citizenship. The Act was amended in 1986. This amendment made the acquisition of Indian citizenship more stringent. The Citizenship Act 1955 prescribes modes of acquiring citizenship. They are :

**1. Citizenship by birth** : Every person born in India on or after 26<sup>th</sup> January 1950 shall be a citizen of India by birth. Those who were born before 26th January 1950 and also domiciled in India were granted citizenship.

**2. Citizenship by descent** : Every person born outside India on or after 26<sup>th</sup> January 1950 shall be a citizen of India by descent if either of his parents is a citizen of India at the time of his birth.

**3. Citizenship by registration** : If any person who is not an Indian citizen, if he desires to become Indian citizen he can acquire the Indian citizenship as per the constitution or The Act of Citizenship through Registration.

**4. Citizenship by naturalization** : Foreigners can acquire Indian citizenship by naturalization by submitting an application to the concerned authority i.e. the President of India. Certain conditions have to be fulfilled by them before submitting the application. They should have lived in India for not less than the period of five years.

**5. Citizenship by the incorporation of a new territory** : If any new territory becomes a part of Indian union, then the government of India by an Act notifies the persons as to whom Indian citizenship is granted.

**Loss of Citizenship in India :** Just as citizenship may be acquired, it can also be lost for a variety of reasons. Some of the important ways of losing citizenship may be stated as follows:

**1. Renunciation :** Any Indian citizen can renounce his citizenship voluntarily by submitting an application before the concerned authority.

**2. Termination :** If any citizen of India acquires the citizenship of any other country his Indian citizenship is terminated by law. This procedure does not require the submission of any application.

**3. Deprivation :** If any person has obtained the citizenship of India by fraud or if he/she has indulged in anti-national activities or shown disloyalty towards the Constitution of India, the government of India deprives him/her of his/her citizenship. It is forced termination.

**Types of Citizenship :** There are two types of citizenship. They are single citizenship and dual citizenship. In single citizenship people have only one citizenship that is National citizenship irrespective of the province that he belongs to. There is no separate state citizenship for e.g. India. In federal states like USA and Switzerland there is dual citizenship. That means every individual obtains state citizenship in which he lives and national citizenship also.

**Citizen and the Government :** There is a close relationship between the state and the citizen. There is no state without citizens. The state or the government protects the interests of the people. It provides protection from foreign aggression. It maintains law and order and promotes unity. It frames the laws and curbs aggressive elements and violence so that peace can be maintained in the state. It undertakes social, economic plans and educational programmes for the benefit of its citizens. It plans and undertakes programmes to overcome the problems of illiteracy, poverty, inequality and unemployment etc. In addition the Constitution guarantees fundamental rights.

The citizens have certain duties towards the nation. Rights and duties are like the two faces of the same coin. A citizen derives many benefits from the nation. Similarly he has certain obligations and functions to perform.

- He must respect the Constitution and obey the laws of the government.
- He must protect the national honour and dignity by his words and deeds.
- He must not indulge in anti-national activities.
- He must oppose and check the evil practices like corruption, nepotism, dowry, child marriage, etc., through constitutional means.
- He must take part in the political activities of the state as the quality of the government depends on the quality of citizens.
- He must place the national interest above the personal interest and work for national progress.
- He must be service minded and must be prepared to sacrifice for the sake of nation.
- He has the obligation like paying taxes and defending the nation.

In addition to these functions certain fundamental duties are incorporated in our Constitution. The purpose of these fundamental duties is to make citizens aware of their social and economic obligations. It also helps the citizens to understand as to what they should do or what he should not do in the interests of the country. So a citizen should follow and practise these fundamental duties in the interests of community, nation and their own progress. There should be a cordial relationship between the citizens and the government. It should be based on the principle of give and take.

Fundamental duties are incorporated in our constitution in 1976 through 42nd amendment. The fundamental duties are included under article 51(A).

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

- 1 The people living in India under the British rule were termed as \_\_\_\_\_.
- 2 A temporarily residing foreigner in our country is called \_\_\_\_\_.
- 3 Citizenship Act was passed in the year \_\_\_\_\_.
- 4 The method through which you have acquired citizenship is \_\_\_\_\_.

### **II Answer the following questions briefly :**

- 5 What is citizenship ?
- 6 What are the benefits enjoyed by a citizen ?
- 7 Name the body which has the authority to legislate the laws on citizenship in India.
- 8 Mention the methods of acquiring citizenship.
- 9 Explain citizenship by naturalisation.
- 10 What are the methods of losing citizenship ?
- 11 Mention a situation under which citizenship is terminated.
- 12 Mention the types of citizenship and write the differences between them.
- 13 What are the duties of a citizen towards his nation ?

### **III Activities :**

- 14 Prepare a pictorial representation of the fundamental duties and exhibit it in your school.
- 15 Discuss the benefits of fundamental rights under the guidance of your teacher.
- 16 Discuss the importance of right to equality and right to freedom in India (under the guidance of your teacher).

- 17 Prepare a pictorial chart showing the methods of acquiring and losing citizenship and exhibit it in your classroom.
- 18 Discuss the benefits of single citizenship in India.
- 19 Supposing the dual citizenship as in US is introduced in India, how does it benefit us? Discuss.

#### **IV Projects :**

- 20 Collect information from the newspapers and magazines about the violation of fundamental rights and the remedial measures taken.
- 21 Collect information from the authorities concerned about the procedure to be followed by an Indian if he wants to stay in a foreign country for a short period of time.

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# **CHAPTER-15**

## **DEMOCRACY**



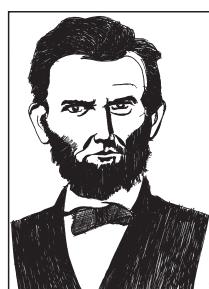
### **After studying this chapter you learn :**

- Know the meaning of democracy.
- Understand the features of different types of governments.
- Identify the different types of democracy and their differences.
- Explain the features, success factors of democracy merits and demerits of democracy.
- Explain adult franchise system and general election system in India.
- Describe the duties and responsibilities of political parties in a democratic system.
- Analyse the responsibilities of mass media in democracy.
- Know about Right to Information Act - 2005.

Democracy is one of the ancient forms of government. Traces of democracy were seen in Antient India. Ex.: Sabha and Samithi during Sindhu-Saraswathi period. Many revolts and revolutions have taken place in the world to establish the democratic form of Government. The word 'Democracy' is derived from the Greek word Demokratia meaning 'Rule of the people'. Elections play an important role in democracy. Elections provide an opportunity to the people to form their own government. It works on the principle of one man, one vote. The government is formed by the people and the people are the decision makers. Abraham Lincoln, the former President of USA has defined democracy as 'a government by the people, of the people and for the people.' Democracy is a form of government where the supreme power belongs to the people.

### **Different forms of Government**

**Monarchy:** Monarchy is an old form of government. In monarchy the king heads the government. He enjoys vast powers. He is the law maker. This type of monarchy is called 'absolute monarchy'. In Qatar, Kuwait and in some of the countries of Arab world



absolute monarchies still exist. In the contemporary period the constitutional monarchy exists in Japan and England. In Constitutional monarchy the elected house is the law making body, where a the king/queen remains as the nominal head.

**Dictatorship:** Dictatorship is the other form of government. Adolf Hitler in Germany and Benito Mussolini in Italy were dictators. In dictatorship the authority rests in the hands of one individual who is not crowned. The dictators have scant respect for democratic values and principles.

**Military Dictatorship:** In military dictatorship the political power rests with the highest military authority. The people are denied the freedom of expression, freedom to criticizing the government policies and forming associations. Media and Judiciary are controlled by the military. Earlier it was existant in Pakistan.

**Communist Government:** The people have regulated freedom in this kind of government. Political parties other than communist party do not exist. There is no scope for private ownership. All means of production are nationalized. In China, North Korea and Cuba communist governments are functioning.

All forms of governments have merits and demerits. In democracy merits are more than demerits. It has greater faith in common man and his potentiality. These advantages have made democracy a popular form of government.

**Types of Democracy :** There are two types in Democracy. They are direct democracy and indirect democracy (Representative Democracy).

**Direct Democracy:** In direct democracy the people directly participate in electing their government, making polices and laws for their own progress and development. The system of direct democracy can be practised only in countries of small size and population. This system was practised in ancient Greece and presently practised in Switzerland. Direct democracy becomes more effective through referendum and initiative. Direct democracy is difficult to practise in India because of its vastness and size of the population.

**Indirect Democracy:** Indirect Democracy is most suitable in bigger nations like India, USA and such other nations. In indirect democracy

the people elect their representatives through periodical elections and send them to legislative bodies. These representatives involve in the process of law making and also control the administration. Democracy is defined as a government by the elected representatives through elections conducted from time to time. The elected representatives in turn elect their leader and also the highest executive of the country.

### **Characteristics of democracy**

1. Democracy is based on the consent of the people.
2. It is representative government where people elect their representatives and they make laws.
3. It is based on the principle of universal adult franchise.
4. Elections are held at regular interval in a free and fair manner.
5. Citizens enjoy fundamental rights, hence there is scope for individual development.
6. The government is responsible to the people.
7. People have the right to change and challenge the government.
8. There is rule of law and government's powers are limited constitutionally.
9. It recognizes political parties and entrusts special responsibility on the opposition party.
10. It upholds the sense of dignity in the common man.
11. The main basis of democracy are liberty and equality. The people enjoy maximum liberty and equality. In democracy there is no disparity among the people on the basis of caste, religion and position or status.
12. In democracy, people are the ultimate source of sovereignty (supreme power), and government derives its power from them. For this purpose elections are held at certain intervals. In India general elections take place ones in five years.
13. Democracy is a welfare state and in it special attention is paid to the welfare of the people as a whole and not to a particular class.

### **Factors essential for the success of democracy**

1. People should have an urge to protect democracy.

2. People must always be vigilant.
3. Tolerance is one of the basic qualities needed for the success of democracy. They must work with the spirit of give and take.
4. Success of democracy depends upon good leadership. The leaders must have the ability to understand the problems of the common man. He must possess the qualities of service, patriotism and spirit of sacrifice.
5. Efficient opposition party keeps the governments alert. It checks the ruling party from becoming dictatorial.
6. Well informed and educated electorate contribute to the success of democracy.
7. Success of democracy depends upon the role of the people. People must compulsorily vote during election. People must be free from corrupt practices. The people must elect efficient and non-corrupt representatives who can solve their problems.
8. Free, fearless and unbiased press contributes to the success of democracy.
9. Well organized, efficient and responsible local bodies strengthen democracy.

### **Merits of Democracy**

Many countries have accepted democracy as the best form of government because of its merits. The merits of democracy are as follows:

- It protects the rights and independence of the people through an independent judiciary.
- It is based on the principles of equality.
- It provides an opportunity to people to involve themselves in decision making and framing laws.
- People elect representatives and the government of their choice.
- Decisions are taken after debate and discussion. Decisions are based upon public opinion.
- Opposition checks the misuse of power by the government.

- The fundamental rights provide an opportunity for the development of the personality of an individual.
- It brings about a peaceful change of government through elections and thus reduces the danger of revolution.
- Democracy develops nationalism, patriotism, respect to people and creates unity in the midst of diversity.

**Demerits of Democracy :** Democracy has certain demerits or defects. The demerits in democracy are as follows:

- Lack of respectable educational qualification, managerial skills, leadership qualities, ignorance of social, economic, political issues and selfish attitude of the representatives weaken democracy.
- The competition among the political parties for power results in favouritism and corruption.
- Interests of the party becomes more important than national interest.
- Defections from one political party to another leads to unstable government.
- The caste factor, the use of money and muscle power in the elections weaken the government in the democratic set up.
- Law making in democracy is a lengthy procedure.
- Conducting elections is expensive and much time consuming.
- The majority party at times becomes dictatorial and the opinion of the minority is suppressed.
- The uneducated poor people are often exploited by the people in power.
- Anti-social elements exert influence on the government with their money and muscle power.

**Universal Adult Franchise:** In India we have representative democracy. Elections play an important role in a representative democracy. People have the right to vote in elections. In India voting right is provided to all people aged 18 and above, regardless of caste, qualification, creed, religion, language and gender.

*Before 1989 the minimum voting age in India was 21 years. Through the 61st amendment of 1989 the voting age is reduced to 18 years from 21 years.*

Good government always depends upon the voter. So the voter must not come under the influence of caste, creed, money or muscle power while voting. The voter must be careful while choosing a candidate. He must choose the candidate with good qualities and capabilities as stated below :

- The candidate must have a zeal and interest to serve the society.
- The candidate must have concern towards the problems of the people and should be easily approachable.
- The candidate must be educated, loyal, honest and service minded.
- The candidate must not be corrupt and must be a model to others in selfless service, character and actions.
- The courts should not have declared him/her as a criminal and he / she must be free from criminal activities.
- The candidate must not have indulged in anti-social and anti-national activities.

## **Elections**

Elections are important in the democratic set up. Elections are held at periodical intervals. In India elections are conducted once in five years but this period varies from country to country. Elections conducted once in five years on routine is called General elections. If the elections are conducted to fill the vacant seats within the stipulated term of five years, such elections are called by-elections. The Election Commission is set up by the government of India through the constitutional procedures to conduct elections. Its headquarters is at New Delhi. Presently it has one Chief Election Commissioner and two Election Commissioners. They are appointed by the President of India. Parliament has authority to decide the number of Commissioners it should have. There is State Election Commission at the state level to conduct election to Panchayat Raj institutions.

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

- 1 The word Democracy is derived from the word \_\_\_\_\_ .
- 2 The party that commands majority in the legislature and looks after the administration is called \_\_\_\_\_ party.
- 3 The minimum age to vote in India is \_\_\_\_\_ years.
- 4 The elections conducted once in five years in a routine manner is termed as \_\_\_\_\_ elections.

### **II Answer the following questions briefly :**

- 5 What are the advantages of democracy?
- 6 Mention the different types of Government.
- 7 How is direct democracy different from indirect democracy?
- 8 What is universal adult franchise?
- 9 List out the essential factors for the success of democracy
- 10 Why is efficient opposition party an essential factor in democracy?
- 11 Mention the Characteristics of Democracy?
- 12 Why are periodical elections necessary in democracy ?
- 13 The success of democracy depends on the votes. Discuss.

### **III Activities :**

- 14 Discuss in groups the salient features of democracy, dictatorship and communist form of Government and decide which form of Government is best suited in the modern context.
- 15 The best leadership contributes to the success of Democracy. arranged discourse.

### **IV Projects :**

- 16 With the guidance of your teacher prepare a project report on the direct democracy practised in Switzerland.
- 17 Prepare a report on the role of public opinion against corruption in India in 2011.

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# **CHAPTER-16**

## **LOCAL SELF GOVERNMENT**



### **After studying this chapter you learn :**

- Know the importance of forming local self government.
- Explain the objectives and functions of local self government.
- Describe the formation, administration, responsibilities and duties of local government.

The concept of local self government in India is very old. Many ancient kingdoms of India gave importance to the growth of local self government. Local self government provided a link between the government and the masses. It helped the people of the locality to voice their problems. The local government helped to solve local problems at the local level with the co-operation and involvement of the people. The involvement of people in administration strengthened the democratic institution at the grassroot level. The people were vested with powers of electing representatives to local administrative bodies. The self governing bodies called local self government became the basis for the decentralization of power. Acts of 1919 and 1935 passed by the British provided more powers to local self governing institutions in India. After independence the government of India appointed many committees and passed Acts to realize the dream Grama swarajya of our father of the Nation.

In addition a direction was included in Indian Constitution which states that the state shall take steps to organise village panchayat and provide them with adequate powers and authority to function efficiently. 73rd and 74th constitutional amendments which came into effect in 1993 became the milestone in the history of Panchayat Raj system.

The local self governments functioned in Karnataka in the pre – independence period. In the post independence period many committees were appointed by our state government to establish and strengthen local bodies in our state. In 1983 the Panchayat Raj Act

was introduced and it came into effect in 1985. According to this Act Zilla Panchayat at district level, Taluk Panchayat at taluk level and Grama Panchayat at village level were created through direct elections. Later in 1993 the Panchayat Raj Act was amended to strengthen the Act of 1983. The Act also made provision for the creation of Grama Sabhas. To keep pace with the modern developments many amendments to Karnataka Panchayat Raj Act have been passed. The objectives of the local self government are :

- To involve the local people in solving the problems of their own locality.
- To provide the knowledge of administration to common people.
- To help in decentralizing powers and make the administration become more efficient.
- To train or develop leadership qualities among people at the grassroot level.

**Functions of Local Self Governments:** The functions of the local self governments like Grama Panchayats, Taluk Panchayats and Zilla Panchayats are varied. A few important functions are :

- To maintain and protect the panchayat property.
- To prepare the annual budget of the local body.
- To undertake health and family welfare programmes.
- To plan and undertake the developmental works like laying of roads, electrification, housing and supply of drinking water, etc.
- To encourage and implement the primary, secondary, adult and informal education programmes.
- To maintain cleanliness and sanitation of the area.
- To prevent all sorts of pollution and to provide better health facilities.
- To provide facilities for the distribution of essential commodities like food grains, kerosene etc.
- To ensure prompt registration and reporting of birth and deaths.
- To encourage agriculture, animal husbandry, khadi and handicraft industries.

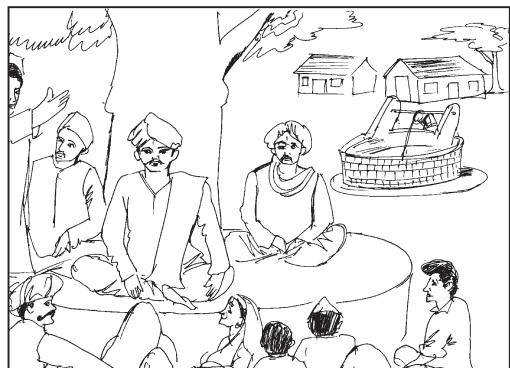
- To undertake the programmes for conservation of soil, water and forest.
- To execute the agricultural extension programmes to help the farmers.
- To plan and implement the welfare schemes for the benefit of SC, ST, weaker sections, women and children.
- To provide marketing facilities, street lighting facilities and reading room facilities.
- To collect taxes, fees and penalties.
- To identify the beneficiaries for the various projects and welfare programmes of the government.

**Sources of Income :** The local self governing bodies require funds to implement various plans and projects. The main sources of income for local bodies are

- Amount collected through water cess, health cess, education cess, library and reading room cess.
- Amount collected through building tax, vacant land tax, taxes on business establishments, markets, entertainment houses and advertising bodies.
- Taxes collected from the tourist spots.
- Rental and lease amount collected on their properties.
- Financial grants from the state government.

### Composition of local self governing bodies

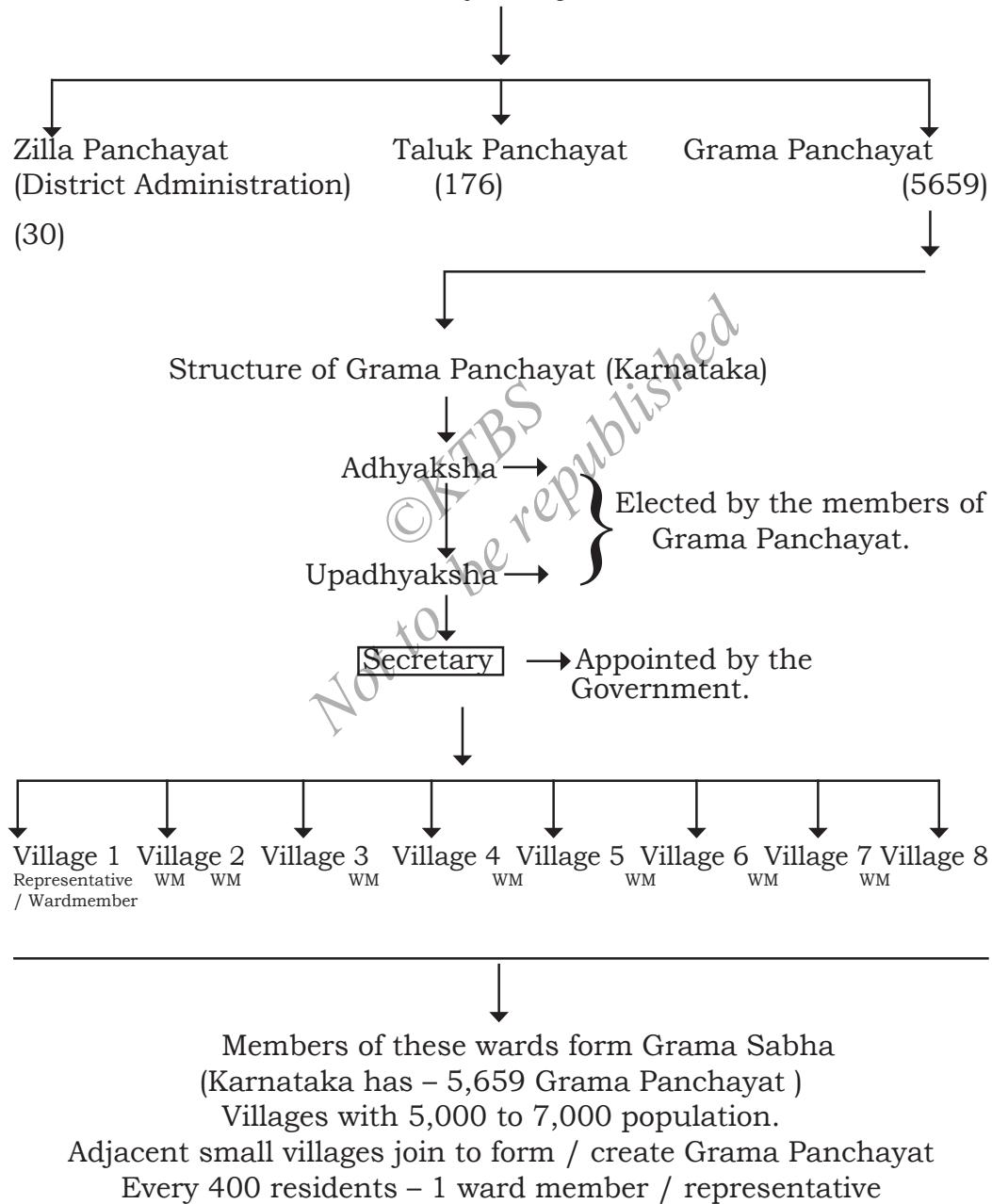
**Gram Sabhas :** Grama Sabha is a village council. There is no election procedure to Grama Sabha. All the members of Grama or village aged 18 and above can take part in Grama Sabha meetings. The president of Grama Panchayat presides and the members of Grama Panchayat attend the



Gram Sabha

meetings. Grama sabha must meet at least once in six months. Grama sabha discusses the problems of their village and also the welfare measures undertaken for the progress and development of the village. It recommends the names of the beneficiaries to various governmental schemes.

### Chart of Panchayat Raj in Karantaka



The term of Grama Panchayat is five years and the term begins from the date of the first meeting of Grama Panchayat.

**Grama Panchayats:** Grama Panchayats are formed on the basis of population. Village or group of villages with a population between 5,000 and 7,000 form Grama Panchayat. Regions of Uttar Kannada, Dakshina Kannada and Malnad regions form Grama Panchayat only with the population of 2,000. The members of the grama panchayat are elected by the adult population of the Panchayat area. One representative for 400 voters is elected. Reservation is provided to schedule caste, schedule tribe, backward classes and women.

*As per second amendment of Panchayat Raj Act of 2000, a panchayat member must have a toilet in his house. If he does not have, he must arrange to have one within one year of getting elected.*

Grama Panchayat meetings must be held at least once in two months. Minimum one third of the members of the Panchayat must be present to take decisions. All the members of the Grama Panchayat together elect Adhyaksha and Upadhyaksha for a term of 30 months. Adhyaksha presides over the meetings of Grama Panchayat and in his absence Upadhyaksha manages the deliberations. Reservation policy is applicable to the posts of Adhyaksha and Upadhyaksha. Standing Committees are formed for the efficient administration of Grama Panchayats.

A full time official called Secretary is appointed to look after the executive work of the Grama Panchayat. Recently provision is made to appoint one Panchayat Development Officer (PDO) through Karnataka State Public Service Commission. (KPSC).

**Taluk Panchayats:** Panchayat Raj Act of 1993 provides an opportunity for the creation of Taluk Panchayat at Taluk level. Taluk Panchayat comprises of the members directly elected by the eligible voters. The number of members in the Taluk Panchayat is based on population of the taluk. There is one elected representative for every 10,000 voters. Reservation is provided to SC, ST, backward communities and women. Besides, one fifth of the presidents of

Gramा Panchayats serve as the members of Taluk Panchayat. The Presidents are chosen through lots (lottery system). They are nominated on rotation basis for a period of one year. The term of the Taluk Panchayat members is five years. They have the right to resign or can be removed by the Government. MLAs, MLCs and MPs of that jurisdiction can attend the Taluk Panchayat meetings.

The Taluk Panchayat meetings must be held at least once in two months. In case of utmost importance special meetings are conducted. The president of Taluk Panchayat presides over the meetings. In his absence vice president presides over the meetings. President and vice president are elected by the Taluk panchayat members for a term of 20 months. The standing committees are constituted to bring about efficiency in administration. The government appoints the executive officer to look after the executive work of Taluk Panchayat. In revenue matters his powers are equal to that of magistrates. Taluk Panchayats have certain functions to perform in addition to the functions of local bodies. They are,

- To consolidate the annual plan proposals of the Gramा Panchayats and to submit those to Zilla Panchayat.
- To implement all the welfare programmes suggested or ordered by the Zilla Panchayat or state government.

**Zilla Panchayat:** Zilla Panchayats are constituted at district level to look after the administration. Earlier they were called district boards. The members of the Zilla Panchayat are directly elected by the people of the district. The total number of representatives vary from district to district based on the population. One representative for a population of 30,000 in Dakshina Kannada, one representative for a population of 18,000 in Kodagu (Coorg) and one representative for a population of 40,000 in other areas are elected. In addition the presidents of Taluk Panchayats, MLAs, MLCs and MPs of that district are the members of Zilla Panchayat. They can attend the meetings and vote. Reservation of seats are provided to SC, ST, backward classes and women. The term of the members is five years.

Zilla Panchayat meetings are to be held at least once in two months. One president and one vice president are elected for a term of

30 months. The President of Zilla Panchayat is called Zilla Adhyaksha. Zilla Adhyaksha presides over the meetings of Zilla Panchayat. In his absence vice president will preside over the meetings. The president has the powers to sanction one lakh rupees for relief measures during the period of calamities. Five standing committees are formed for efficient administration of Zilla Panchayat. Chief Executive Officer (CEO), equal to the rank of the District Commissioner is appointed by the State government to look after the executive work of the Zilla Panchayat. He takes part in Zilla Panchayat meetings and discussions, but has no right to vote.

Zilla Panchayat is like the district government. It has vast powers in the implementation of developmental programmes and welfare schemes in the district. All the developmental programmes and schemes of the government are routed through Zilla Panchayats. In addition it has the following functions :

- To create an atmosphere of mutual trust, confidence and co-operation between Grama Panchayats, Taluk Panchayats and Zilla Panchayat for successful implementation of government projects and programmes.
- To bring about co-ordination among all the departments for successful implementation of programmes and also to supervise such developmental work.
- To encourage and provide support for the establishment of co-operative societies, co-operative banks and such other co-operative institutions.
- To execute the work as directed by the state government.

*A separate Election Commission is constituted at state level to conduct elections to local bodies as per Panchayat Raj Act 1993. The Election Commission so constituted conducts the elections to Grama Panchayats, Taluk Panchayats and Zilla Panchayats in Karnataka.*

## **Urban Local Bodies**

There are many towns and cities in the state. Towns and cities are categorised as urban areas. In urban areas people have better facilities of education, health, transport, drinking water, sanitation and entertainment. At the same time there are many problems in urban areas. In order to solve these problems and to provide good governance, the urban local self governments or urban local bodies are set up. There are three types in urban local bodies. They are :

- City Corporation (Mahanagara Palike) – Major cities
- Town Municipalities or Municipal Corporations – Towns and Cities
- Cantonment wards : under the control of Defence.

The state government has powers to declare a particular area as a city or a town on the basis of certain factors like population, income etc., These urban local bodies have many functions. They are :

- To prepare the budget and to get the approval of the council.
- To look after the overall administration of the town or city.
- To prepare a good town planning system and to implement it.
- To provide good roads, transportation, water supply, electricity, education, market and health facilities.
- To maintain cleanliness by providing good sewage system and disposal of urban waste.
- Granting permission to build structures, maintaining of local body buildings and properties.
- Registration of births and deaths.
- To provide parks, sports and entertainment facilities.
- To improve the living conditions in the slum areas by providing facilities.
- To establish orphanages, old age homes, beggar colonies, juvenile homes and child welfare centers.

- To undertake the construction of swimming pools, stadiums, museums, bus stations, reading room facilities, public libraries, veterinary hospitals, theatre for cultural programmes, whole sale market yards and crematoriums.
- To plan for rain harvesting.
- To encourage cultural activities.
- To undertake measures for the improvement or progress of backward classes and weaker sections.
- To encourage and to undertake such measures which can help to maintain greenery, cleanliness, and beauty of the town or the city.

### Sources of Income

In order to bring about the development and progress of the area and also to implement various plans and projects, the urban local bodies require funds. The main sources of income are from the taxes levied and collected on buildings, vacant sites, shops and vending carts etc. In addition, they collect rent from the buildings of the local bodies rented out to offices, market yards, shops and town halls etc. Water cess, market cess and cess on entertainment houses yield revenue. The grants provided by the state government help the local bodies to undertake welfare measures.

### Composition of urban local bodies

**Town Municipalities or Municipal Corporations:** An urban area is classified as a town or a city on the basis of the population. An area with a population between 20,000 and 50,000 is considered as a town. Town municipality is the governing body of that area. Similarly an area with a population between 50,000 and 3 lakhs is considered as city. The governing body of that area is called a City Municipality. The governing bodies of Town Municipalities and City Municipalities have elected representatives called Councillors. The Councillors are directly elected by the people of that town or city. The number of councillors vary from place to place depending on the population of that area. In Town Municipality the number of councillors are between

23 and 27 whereas in City Municipalities the number is between 31 and 37. Beside, the State Government nominates five members who have good experience and knowledge in municipal administration. These nominated members take part in debates and discussions of the council meeting but have no right to vote. The local MLAs, MLCs and MPs can also attend the council meetings and vote. SC, ST, backward classes and women are provided reservation as per the rule in these local bodies. The President and the Vice President are the heads of the local bodies. They are elected by the councillors. The President presides over the council meetings and helps in smooth functioning of the local body. In the absence of the President, the Vice -President looks after the functions. The term of the urban local bodies is five years. Under certain special circumstances the State Government has powers to extend the term. Four standing committees are constituted for the smooth and efficient administration of the local bodies. The Chief Officer is the Administrative Officer of the municipal body. He is appointed by the Government. He looks after the entire executive work of municipality besides providing the necessary information to the council.

### **City Corporation or Mahanagara Palike**

City Corporation or Mahanagara palikes are constituted as per Karnataka Municipal Corporation Act of 1976. The City Corporation or Mahanagara Palikes are formed in the areas with more than two lakh population and an income of more than Rs. One crore. The members of the City Corporations are called Corporators. The number of Corporators in the corporation is decided on the basis of the population. The number of corporators should not generally be less than 30 and not more than 100. The state government decides the size of the corporation.

*There are ten city corporations and one Bruhat Mahanagara Palike in Karnataka. Bangalore City Corporation is called Bruhat Bangalore Mahanagara Palike (BBMP).*

City is divided into smaller electoral divisions called wards. One corporator is elected from each ward. Corporators are directly

elected by the people of that city. Certain seats are reserved to SC, ST, backward classes and women. Besides these elected members, the state government nominates five members possessing good experience and knowledge in town planning, health, education and Municipal Administration. The five nominated members can take part in corporation council meetings but have no right to vote. The MLAs, MLCs and MPs representing that area can also attend the meetings of the corporation council and vote. The term of the corporators is five years and the term can be extended upto one year by the state government depending upon the circumstances.

The Mayor and Deputy Mayor are the leaders of the corporation. They are elected by the corporators. Their term of office is one year. The Mayor Presides over the corporation meetings. He/She takes measures to implement the decisions of the council meetings. He/She establishes control over the executive work of the corporation. Standing Committees are set up to bring about efficiency in administration and also to assist the Mayor.

*Karnataka Municipal Corporation Amendment Act is passed in 2011. The Act applies to eleven corporations of Karnataka including that of Bangalore. The Act provides opportunity for community participation in Municipal functions. According to this Act each corporation will have two more representative bodies namely the area sabhas and the ward committees. These two committees involve in the developmental schemes of the corporation.*

The Commissioner is the real executive of the City Corporation. Generally he is of IAS (Indian Administrative Services) cadre. He is appointed by the State Government for a term of three years. He participates in the council meetings and provides the required information to the council. He implements the decisions of the council. He assists the Mayor in preparing the budget and also in the executive functions of the corporation.

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

- 1 The Karnataka Panchayat Raj Act that is in force now was passed in the year \_\_\_\_\_ .
- 2 The body of the village council in which all the voters of the village can participate is \_\_\_\_\_ .
- 3 The President of Grama Panchayats are chosen to Taluk Panchayats on the basis of \_\_\_\_\_ system.
- 4 The officer appointed by the Government to look after the day to day executive work of Zilla Panchayat is called \_\_\_\_\_
- 5 The total number of City Corporations in Karnataka including Bangalore is \_\_\_\_\_ .

### **II Answer the following questions briefly :**

- 6 What are the objectives of Local Self Government?
- 7 How is the local body of your area formed?
- 8 Mention the functions of your local body.
- 9 What are the sources of income of your local body?
- 10 List out the members who have right to vote and those who have no right to vote in the local bodies.
- 11 Mention the need for constituting standing committees in local bodies.
- 12 List out the group of members who have been provided reservation in the local bodies.
- 13 What should be the population to classify an area as town or city.
- 14 What are three tiers of Panchayat Raj in Karnataka ?

### **III Activities :**

- 15 Invite the head or a member of the local body of your area to the school and discuss the problems of your area and also the programmes undertaken to solve such problems.
- 16 Supposing you are a member of local body of your area, what measures would you undertake to solve the problems of your area.
- 17 Conduct a mock local body meeting in your class room with the help of your teacher.
- 18 Discuss the need for providing reservation in local bodies.

### **IV Projects :**

- 19 Study and collect information about the local bodies which functioned in ancient India.
- 20 Survey the area in which you live and collect the information about the problems of the area that needs to be attended.
- 21 Survey the area in which you live and prepare a report about the facilities provided by the Government and how the people of the area are benefited by these facilities.
- 22 Interview any five or six members of the local bodies and collect information about the measures taken by them to improve their wards and prepare a report.

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# **SOCIOLOGY**

## **CHAPTER-17**

### **MAN AND SOCIETY**



#### **After studying this chapter you learn :**

- Justify that 'man is a social animal'.
- Understand socialization and human expressions through such process.
- Identify the early sociologists.

Among all the living beings on earth, it is only human beings who have complete awareness about their existence. They contemplate over their goals and purposes in life. It is due to this that innumerable questions arise in people's minds. Why is man called a social being? Is man God's creation? Why are there differences between groups? What is that strength which unites people and groups? Why does society undergo constant change? Is this change a sign of progress? In order to find answers to such questions, and to study human society in a methodical manner, many attempts were made in a scientific manner in the past.

As a result of all these attempts, a new branch of study originated. This study was called sociology. In order to carry out a scientific study of human society, we will have to understand the differences between animal society and human society.

Man differs from all other animals. He is civilized and is different from other animals. He is creative. There are many reasons for this. One of them is the structure of his fingers, especially his thumb. We realize the significance of the thumb when we write. Though animals too have fingers, these fingers are not of much use to them. The second reason is his upright posture. This is very helpful in tackling any danger. Thirdly, it is man's teeth. They enable his consumption of food and are, indirectly, the cause for his physical and mental development. The fourth, and the most important reason is man's brain. It is due to the development of this brain, its perceptions and

creativity that the civilized society which we see today has been created. But animal's lives are limited to indulgence in food, fear and pleasure.

### **Man is a Social Being**

The relationship between man and society is unique. There is no society without man, nor man without society. That is the reason many sociologists are of the opinion that man is the creation of society, and society, that of man. If we close our eyes and ask ourselves, "Would it be possible for me to live all alone in my town?" everyone would come up with the same answer. And that is, impossible. Isn't that so? Man is a social animal. He desires to live with others around him. Society is necessary for the development of all of us, because social relationships are necessary for man's existence. That is the reason human society has been called a web of social relationships, and man, a social being.

### **Socialization**

If we have to become members of society, we have to live amidst society. If we do not live among people, we will not be able to learn language, study, play games, experience thought processes or the body language that we have learnt now. This process of learning is called socialization. The family, school, peer groups, mass communication etc., enable our socialization. The family provides us food, nurturance, education and security. Parents help us to grow mentally and physically healthy.

The school provides formal education. We learn to co-operate and live with others interacting with our peer groups. The mass media give us knowledge about the world around us and enable us to live in harmony with it. Due to all this help from various quarters, man is able to lead a successful life in society.

### **The Necessity of the Social Environment**

If man does not grow in a social environment, he cannot imbibe the qualities of a human being. An individual cannot be socialized outside the society and group. In order to understand the truth of this statement, the following instance can be studied:

Kamala, a girl who was found in Midnapore in 1920, had spent nine years among the animals in the forest. She used to walk on all fours legs like an animal and eat raw flesh. Later, in the company of human beings, she learnt to eat cooked food, to speak and behave like other children. But she was not aware her own nature. What is evident from this instance is that man, if he is not in human society, becomes an animal. This has been proved by many other experiments by social scientists.

### **Human Beings and Language**

How do we express our feelings? We can express hunger, thirst, sleepiness, sorrow and happiness through our bodily gestures and signals. But we cannot convey all our feelings only through body language. Language becomes inevitable in such situations.

Our languages have words such as father, mother, brother, sister, uncle, aunt etc., including relations between human beings. Thus language is needed to understand specific relationships and feelings perfectly.

Man knows language, where as animals do not. This is the difference between man and animals. Just imagine how the world would be without language. There would be no textbooks, schools, mass media or civilization! Human society would be just like animal society. Therefore, while studying society, language is treated as a very important aspect of the society.

### **Early Sociologists**

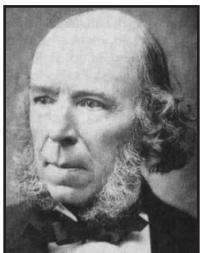
Let us know about the sociologists who developed sociology in the early stages. Sociologists are those who study the society, culture, behaviour, social relationships, etc. Some of the early sociologists are as below:

Auguste Comte was the one who gave the name Sociology to the scientific study of society. Hence he is considered the Father of Sociology. Herbert Spencer was the British sociologist who



**Auguste Comte**

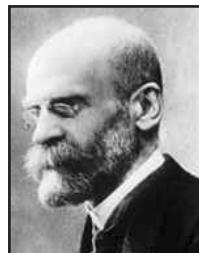
lived in the 19th century. He studied the evolution of society.



**Herbert Spencer**



**Max Weber**

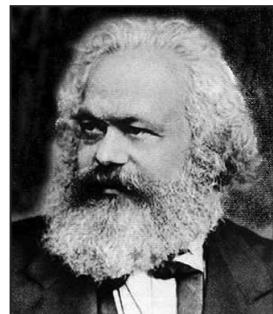


**Emile Durkheim**

Emile Durkheim, the French sociologist, lived in the latter part of the 19th century and the early part of the 20th century. He worked hard at making sociology a science. Max Weber was a German sociologist. He was also a great scholar in the fields of Economics, Philosophy and History. He did a sociological study of the Labour force and the Christian religion.

Karl Marx was a German philosopher. He was highly knowledgeable about History, Economics, Philosophy and Christian Religion. He extended the scope of sociology.

The British introduced Sociology in the Bombay University in 1914. Leading Indian sociologists have been G.S.Ghurye, M.N.Srinivas, A.R.Desai, Iravati Karve, S.C.Dubey and others.



**Karl Marx**

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 Man is a \_\_\_\_\_ animal.
- 2 Formal education is provided by the \_\_\_\_\_.
- 3 The Father of Sociology is \_\_\_\_\_.
- 4 Man to become a human being \_\_\_\_\_ is necessary.
- 5 Human beings express their feelings through \_\_\_\_\_.

**II Answer the following questions in 2/3 sentence each :**

- 6 How is man a social being?
- 7 What is socialisation?
- 8 Describe Kamala, the one who was found in Midnapura.
- 9 Name some early sociologists.

**III Answer the following questions in 4/5 sentences each :**

- 10 Explain 'Man is a social being'.
- 11 Explain the relationship between human beings and language.
- 12 What are the differences between human society and animal society?
- 13 What does Sociology deal with?

**IV Activity :**

- 14 Collect the pictures of Sociologists.

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# **CHAPTER-18**

## **MAN AND CULTURE**



### **After studying this chapter you learn :**

- Know the concept of culture and its development.
- Analyse cultural variety and tradition.

In our daily conversations, the word ‘culture’ is generally used to refer to good behaviour, customs, traditions and rituals. Let us see how this word is used in sociology.

The word culture is derived from Latin word ‘colere’, that means cultivate . Various sociologists have defined this word in different ways. Culture is that complex system involving knowledge, the arts, morality, law, customs, abilities and talents that we learn being members of society. In short, whatever we are, that is our culture.

Culture is shaped by the geographical features, traditions and needs of that particular society. That is the reason we cannot call one culture good and another culture bad. Culture is transmitted from one generation to another. The language we have learnt has been passed on to us by our elders. Culture is subject to change constantly. As you might have observed, the style of dressing, hairstyles, food habits have changed a lot over the past ten years. Thus the culture of one society differs from that of another society.

### **Cultural Diversity**

Let us imagine that we are walking along a famous street in Bangalore, the capital city of Karnataka. We will get to see people dressed in various kinds of clothes, people belonging to different races and people conversing in different languages.

There cannot be the same kind of culture in any society. There will be different cultures depending on the religions and life styles followed by the people. We call this pluralistic culture.

Even when cultures vary, they can influence one another deeply. For instance, the chudidar worn by women is a kind of dress which has come from the Moghuls to us. In the same manner, the trousers and shirts that we wear, the English language that we speak have come to us from the British. In India we get to see a pluralistic culture consisting of hundreds of tribes, thousands of castes, many races and hundreds of languages. That is the reason why India is said to have unity in diversity.

### **Customs and Traditions**

Now that we have understood what culture is and how diverse it can be. Let us know what constitutes culture. Culture is made up of beliefs, values, rules, social conventions and morals. These can collectively be called customs and traditions.

Freedom, true friendship, cleanliness, humility, patriotism etc. are values. Values can be understood as the behaviour expected of human beings by society. Values enable us to determine what is good and bad in every culture.

There are conventions and moral codes to complement rules. Conventions are the activities we engage in again and again in our daily lives. We engage in eating, sleeping, greeting and other similar activities according to the prevailing conventions without giving much thought to them. These activities are inseparable parts of culture. For example, you do not ask your teacher everyday how you have to sit down to eat or sit in the class. You will have learnt all of them just through practice of conventions. Conventions enable us to do our daily duties without any hesitation.

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 Culture means \_\_\_\_\_.
- 2 Conventions are activities \_\_\_\_\_.
- 3 We get to see unity \_\_\_\_\_ in India.

**II Answer the following in a sentence each :**

- 4 What is culture?
- 5 Give examples of the cultural diversity in your environment.
- 6 What are customs and traditions?
- 7 Give examples for customs and traditions.

**III Answer the following in four-five sentences each :**

- 8 Give an example of a convention.
- 9 Explain cultural diversity.
- 10 Describe the various aspects of culture.

**IV Activity :**

- 11 Describe a fair held in your locality and discuss about it with your elders.

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# **CHAPTER-19**

## **SOCIOLOGY IN DAILY LIFE**



**After studying this chapter you learn :**

- Understand the importance of social interaction and daily life.
- Understand the role of consciousness.
- Know the importance of body language and conversation in social interaction.

### **Daily Life**

While referring to women, some people may remark that they are not very knowledgeable. This remark reveals their understanding that women are weaker than men and they are to be neglected. But such remarks are just casual talk full of prejudices against women and are not scientific truths. When it concerns knowledge, there is no difference between men and women.

The above example illustrates the fact that though general knowledge is helpful to us in our daily lives, it does not provide us answers to certain important questions. In such situations, sociology is of great help to us. It is possible for sociologists to carry out a study of women, and scientifically prove that they are also as strong and as capable as men. The above explanation prove that sociology provides us with the right information needed for our daily lives. It enables us to study all subjects without any prejudices.

### **The Individual Body Language And Conversation**

We interact with many people in our daily lives. This process is called social interaction. Social interaction involves more than two people communicating among themselves through language and symbols, and influencing one another's behaviour and thoughts.

We cannot lead our daily lives without communication. The language that we speak depends on the area we reside in. We learn the language that is suitable for our environment, or else it will be difficult to lead our lives. Sometimes we use a different kind of communication to satisfy our needs. If we do not know language, we cannot converse with anyone. On such occasions, we express our feelings through body language or facial expressions.

### **Role Consciousness**

You might have noticed doctors and nurses when you visited a hospital. After examining the patient, the doctor suggests necessary medicines and treatment. The nurse gives the medicine to the patient and looks after him according to the instructions of the doctor. In the same manner, as the teacher enters the classroom, he may ask you various questions. Through those questions, he tests whether you have studied at home or not. You also ask questions about the topics you have not understood and get clarifications.

However, you do not go to the hospital and ask questions about your school lessons. Or put questions about your illness to your teacher and ask for medicines. Why do you do so? That is because we expect the doctor to do his duty towards health, the teacher to teach lessons and the nurse to treat us. We do not get confused about these duties. This performance by every person of his role is known as role consciousness.

Even in our family, we perform many roles as brother, sister, father, mother, grandfather, grandmother, etc. Every individual adopts many roles according to his age and conditions.

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 We express our feelings through \_\_\_\_\_.
- 2 Sociology enables us to study every subject without any \_\_\_\_\_.
- 3 Social interaction is \_\_\_\_\_.

**II Answer the following questions :**

- 4 How does sociology enable us to understand the society in our daily lives?
- 5 Give an example to illustrate the importance of language.
- 6 What is role-consciousness?

**III Answer the following in four-five sentences each :**

- 7 Describe the relationship between language and society.
- 8 Explain role consciousness with an example.

**IV Activity :**

- 9 Write an essay on your role in society as brother/sister.

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## CHAPTER-20

# KINDS OF SOCIETIES



### After studying this chapter you learn :

- Make a list the different types of society.
- Understand the features of different types of societies.

We do not get to see the same kind of society everywhere. Various aspects like lifestyles, culture, customs and traditions, professions etc., differ from place to place. We can see even now many people of the cowherd-community making a living by hunting and gathering roots and tubers. Similarly, when we go to rural areas, we can see innumerable sheep, cattle, other pet animals, and also green fields stretching as far as the eye can see. We can also notice clusters of houses, isolated houses, farmers carrying ploughs, women carrying water in pots from wells.

In cities like Bangalore, Hubli, Mumbai and Delhi we see roads teeming with traffic, noisy crowds, vast suburbs and slums. We can also come across people wearing different kinds of clothes, factories spewing smoke, tall buildings, universities and huge hospitals.

This means that society is not the same everywhere. It is of different forms in different places. Hence we classify societies into different kinds. These are:

- 1 hunting and food-gathering society
- 2 cattle-rearing society
- 3 farming society
- 4 industrial society

### 1. Hunting and Food-Gathering Society

This is the simplest and the oldest of all forms of human societies. This society is very small, comprising very few people, and adopts a nomadic life style. The weapons they use are – axe made

from stone, spear, dagger etc. These people hunt wild animals for their survival. They also gather fruits, seeds, roots, tubers and vegetables grown wildly in the forest. They do not have any desire to earn money. They lead lives sharing everything with others.

### **Features of this society**

- 1 This society comprises very small and scattered groups of people. It never has more than 40-50 people.
- 2 Since this society keeps on moving from place to place, the people have to move to a new place in search of food when it is scarce in one place.
- 3 People in this society do not desire to earn wealth. There is no concept of wealth in their society. Whatever they get, they share it with one another.
- 4 The whole society is bound together by means of relationships. There is no personal identity. Family and relationships are the only mutually related institutions.
- 5 Since there are no political institutions, there are no categories of the rulers and the ruled here.

### **2. Cattle-Rearing Society**

The society which rears herds of cattle for its livelihood is a cattle-rearing society. Here the people satisfy their needs by hunting, cattle-rearing, food-gathering. Even today we can see cattle-rearing societies in parts of Africa and Central Asia.

### **Features of this society**

- 1 These societies are comparatively big and consist of several hundreds to thousands of people. For example: The Bhaktiyari community has about 5000 to 1,50,000 people.
- 2 These societies can be usually seen on grasslands, hilly regions, deserts and areas not suitable for agriculture. These are the areas congenial for cattle-rearing. That is the reason their main occupation is cattle-rearing.

- 3 In this society, the one who possesses the largest number of cattle becomes more powerful than the others. He is considered rich and becomes the leader of the group. As rich families go on progressing, they lead to the birth of leadership in society. This leads to inequality in society.

### **3. Farming society**

A farming society depends on cultivation of vast areas of land for the livelihood. People make use of animals to plough the land.

#### **Features of this society**

- 1 A 'Farming Revolution' began with the invention of the plough around 3000 B.C.E. With this, the production of food too increased. Food production increased much more when animals were used to draw the plough.
- 2 Cultivation is the main occupation in the farming society. Hence people stayed in the same place. With this permanent settlement of people, villages took shape.
- 3 Since increased food production was possible in the fields, it was not necessary for everyone to work there throughout the day. Therefore, majority of the people engaged themselves in other activities. As a result, cities evolved, and their population too increased significantly.

### **4. Industrial Society**

The society which depends on industries that manufacture products with the use of science and technology is called an industrial society.

#### **Features of this society**

- 1 New inventions transformed the society totally. The steam engine, internal combustion engine, electric energy, nuclear energy and others have brought about and are bringing wide-ranging social and economic transformation.
- 2 Many people migrate to cities where industries are established. Therefore, the population in cities increases.

- 3 Division of labour is needed to run industries. Division of labour involves division of the work according to the skills of the workers. In the industrial society, we see division of labour in all aspects.

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 The members of the hunting society used \_\_\_\_\_ weapons.
- 2 In farming \_\_\_\_\_ is used for ploughing.
- 3 Division of tasks according to skills is called \_\_\_\_\_.

#### **II Answer the following questions :**

- 4 What is meant by 'Cattle-rearing' society?
- 5 What do you mean by 'Farming society'?
- 6 What is meant by 'Industrial society'?
- 7 What are the kinds of societies?

#### **III Answer the following in four-five sentences each :**

- 8 Describe the life style in the hunting and food-gathering society.
- 9 Mention the features of the cattle-rearing society.
- 10 Explain the features of the farming society.
- 11 Describe the features of the industrial society.

#### **IV Activities :**

12. Compare and contrast the lifestyle of urban & rural people area with help of teacher.
13. Sit in groups, discuss the concept of an ideal society.

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# GEOGRAPHY

## CHAPTER-21

### THE EARTH – OUR LIVING PLANET



**After studying this chapter you learn :**

- Other names of the Earth.
- The size of the Earth and distribution of water on it.
- To recognise the continents and oceans of the world.
- About latitudes and longitudes, time, local time standard time and international date line.
- To mark (locate) the oceans and continents on the world map.

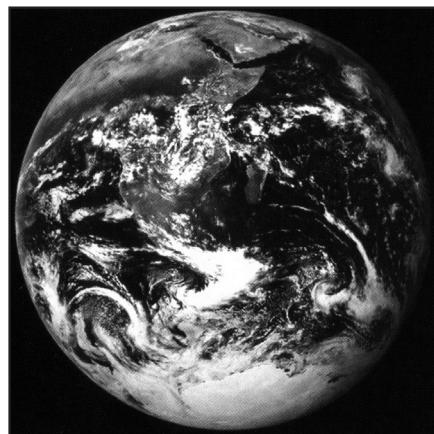
#### **Do you know where we are living?**

We are living on the Earth. It is the third planet from the Sun. The Earth is the home for all forms of life like plants, animals and human beings because of its suitable distance from the Sun, range of temperature, life supporting gases, atmosphere, water cycle etc. Our Earth is called by many names. Some of them 'Living Planet', 'Unique Planet', 'Watery Planet', 'Blue Planet'.

**Size of the Earth: Distribution of Land and water bodies**

The Earth is the fifth largest planet in the Sun's family. The diameter of the Earth is approximately 4 times greater than the Moon and it is around 107 times less than that of the Sun.

The total geographical area of the Earth is 510 million sq kms of which 361 million sq kms (70.78%) is covered by water and 149 million sq kms (29.22%) is covered by land. Thus the Earth has unequal distribution of land and water. The ratio between the land and the water bodies is 1: 2.43.



**Earth**

The Earth's shape is often described as Geoid, which literally means 'Earth shaped', or 'Oblate spheroid'. The Earth is flattened at the poles and bulged at the equator. The Equatorial diameter of the Earth is 12756 kms and the Polar diameter is 12714 kms. Equatorial circumference - 40,076 kms and Polar circumference - 40,008 kms. The difference of 42 kms in diameter is the proof for regarding the earth as Geoid.

The land bodies of the Earth are known as Continents. There are seven continents, namely Asia, Africa, North America, South America, Antarctica, Europe and Australia. The continents are land masses of large size. Asia is the largest continent in the world while Australia is the smallest continent. The large water bodies on the Earth are called oceans. There are four major oceans. They are the Pacific ocean, the Atlantic ocean, the Indian ocean and the Arctic ocean. The Pacific is the largest and deepest ocean while the Arctic is the smallest and shallowest ocean.

The land and water bodies are unevenly distributed between the Northern and the Southern hemispheres. The Northern Hemisphere has 60% of land and 40% of water. Therefore it is called the 'Land Hemisphere'. On the other hand there is 81% of water and 19% of land in the Southern Hemisphere and so it is called the 'Water Hemisphere'.

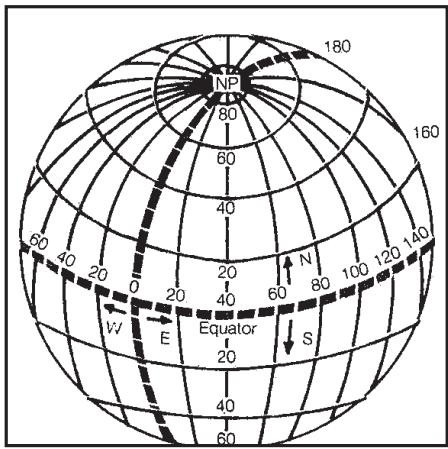
### Latitudes and longitudes

*How do we understand the location of a place, direction and distance between places?*

The Earth is spherical in shape. Therefore it is difficult to locate the places, the direction and calculate distance between places. In order to understand the relations between different places on the Earth and their exact location, we have to understand their position, their distance from any fixed point and also their exact direction. To know the position, distance and direction east and west or north and south, a network of lines are drawn on the globe. These are known as lines of latitudes and longitudes. The horizontal lines are the lines of latitudes and the vertical ones are the lines of longitudes. These lines intersect each other at right angles and create a network called grid or graticule.

## World Physical





**PARALLELS OF LATITUDE AND MERIDIANS OF LONGITUDE**

**LATITUDES :** Latitude is an imaginary line which joins all the places which have the same angular distance north or south of the equator. It is measured in degrees. The Equator ( $0^{\circ}$ ) is the longest line of latitude known as the Great circle. It is equal to the circumference of the Earth. Other lines of latitudes are of shorter length. The length of lines of latitude decreases with the distance from the equator. All lines of latitudes are circles and parallel to the Equator. Therefore, lines of latitude are called parallels of latitude.

There are  $90^{\circ}$  of latitudes on each side of the equator -  $90^{\circ}$  of North and South are points. Including equator totally there are 181 latitudes on the globe. The ground distance between two degrees of latitudes is 110.4 kms.

### Important latitudes

1.  $0^{\circ}$  latitude-Equator or Great Circle.
2.  $23\frac{1}{2}^{\circ}$  North latitude – Tropic of Cancer.
3.  $23\frac{1}{2}^{\circ}$  South latitude – Tropic of Capricorn
4.  $66\frac{1}{2}^{\circ}$  North latitude – Arctic Circle.
5.  $66\frac{1}{2}^{\circ}$  South latitude – Antarctic Circle.
6.  $90^{\circ}$  North – North pole.
7.  $90^{\circ}$  South – South pole

**LONGITUDES :** The imaginary lines that intersect equator at right angle joining the north and south are called longitudes.

On the globe, longitudes are shown as a series of semi-circles that run from pole to pole passing through the equator. All lines of longitude are of equal length. Lines of longitude are called Meridians ('meri'-mid and 'dian'-day) because all places along the same meridian of longitude experience noon or mid-day at the same time.

The meridian passing through Greenwich (England) has been chosen as Prime Meridian. It is marked as  $0^{\circ}$  longitude. There are 180 of longitudes to the east of Greenwich and 180 to the west. Thus there are 360 of longitudes. The zone between the Prime Meridian and  $180^{\circ}$  E longitude is called the Eastern Hemisphere. The opposite zone is called the Western Hemisphere.

The distance between two consecutive longitudes decrease gradually with distance from the equator. This is because the meridians of longitude converge at two poles. On the equator the distance between two consecutive meridians is 111 kms.

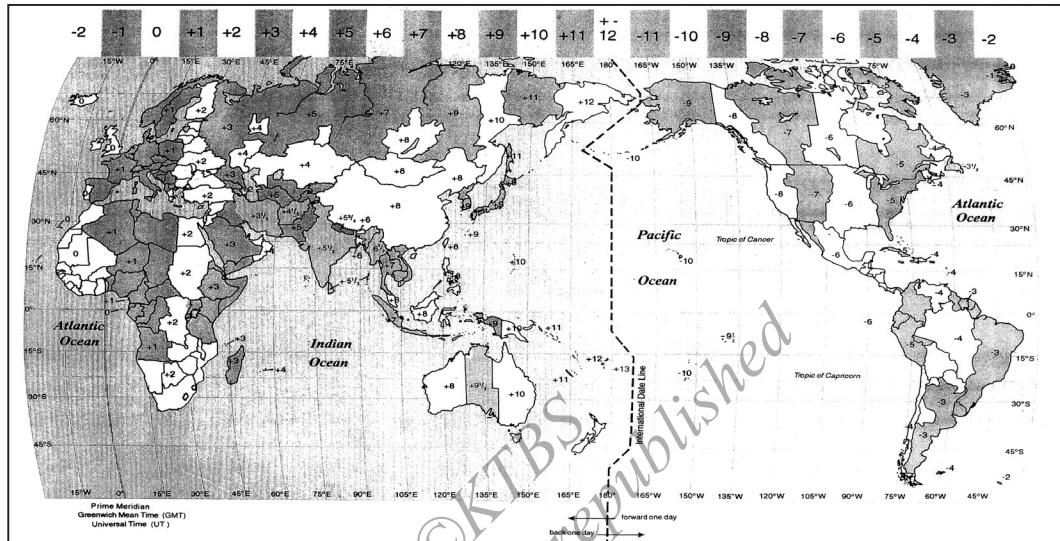
**Longitude and Time :** There is a definite relation between longitude and time. The earth is rotating on its axis and completes one rotation in 24 hours. This means 360 longitudes are covered in a period of 24 hours. This gives rise to a time difference of 4 minutes for every one degree of longitude, 60 minutes or one hour for every 15 degrees of longitude ( $360 \times 4 = 1440 / 60 = 24$  hours). The time difference is to be added (E.G.A- East-Gain-Add) in case of places to the east of G.M.T and in case of places to the west the time difference is to be subtracted (W.L.S- West-Lose-Subtract).

**Local time :** The time according to the longitude of a place or according to the position of Sun at that place is known as the Local time. This is based on the local meridian passing over that place. When the Sun is shining vertically over the longitude it is 12 noon at that place. All places situated on the same meridian have the same local time. Every longitude has its own local time.

**Standard time :** As the local time varies from place to place, it would create considerable confusion if each place were to follow its own local time. In order to avoid confusion many countries follow uniform time throughout the country. Such uniform time is based on the central meridian of the country or the meridian on which the most important city is located. This uniform time which is followed throughout a country is called Standard Time of that country.

In India,  $82\frac{1}{2}^{\circ}$  East longitude is considered as the Standard Meridian of the country. It passes through Allahabad of Uttar Pradesh. The time based on this Meridian is called the Indian Standard Time (IST). It is 5 hours and 30 minutes ahead of G.M.T.

**Time Zones :** In certain countries of the World, where the longitudinal extent is so large (more than  $45^{\circ}$  of longitude) that there is often a difference of three to four hours between one part and the other, the land surface is divided into Time Zones. The whole globe is divided into 24 such time zones so that the time in each zone differs from the other by only one hour.



**Time Zones and International Date Line**

Large countries like Russia, USA, Canada and Australia have vast longitudinal extent. Therefore they have different time zones. Russia has 11 time zones, USA and Canada have 5 time zones and Australia has 3 time zones.

**International Date Line (IDL) :** The problem of time in countries of the world was solved first by the standard time and then by the zonal time. But the circumnavigation of the world brought a new problem in keeping the correct date and day in the week for the travellers. Therefore a line passing through  $180^{\circ}$  meridian diametrically opposite to the G.M.T was adopted as the point where circumnavigators should make adjustments. This line is supposed to pass Pacific ocean along the  $180^{\circ}$  meridian but makes short detours in order to avoid land masses. This is known as the International Date Line because the date and day is changed whenever people cross this line by ships or aeroplanes.

Any ship crossing this line from west (Asia to North America) to east takes a day twice while the ship crossing this line from east (North America to Asia) to west drops one day.

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 The total geographical area of the Earth is \_\_\_\_\_ Sq. Kms.
- 2 The shape of the Earth is \_\_\_\_\_ .
- 3 The equatorial and polar diameters of the Earth is \_\_\_\_\_ and \_\_\_\_\_ Kms.
- 4 The  $23\frac{1}{2}^{\circ}$  North latitude is called as \_\_\_\_\_ .
- 5 The Indian Standard Time is based on \_\_\_\_\_ longitude.

#### **II Answer the following questions briefly :**

- 6 Why is the Earth called 'Living Planet'?
- 7 Why are the Northern and Southern hemispheres called Land and Water Hemispheres?
- 8 What are latitudes and longitudes?
- 9 Mention the difference between local time and standard time.
- 10 What is the International Date Line?

#### **III Define the following :**

- |                       |                          |
|-----------------------|--------------------------|
| 11. Unique planet     | 14. Continents           |
| 12. Size of the Earth | 15. Prime Meridian       |
| 13. Geoid             | 16. Indian Standard Time |

#### **IV Terms to Remember :**

- |                   |                             |
|-------------------|-----------------------------|
| 17. Living Planet | 20. Antarctic circle        |
| 18. Equator       | 21. Zonal Time              |
| 19. Arctic circle | 22. International date line |

#### **V Activity :**

23. List out the countries of the Eastern hemisphere and Western hemisphere on the basis of longitudes.

\* \* \*

## CHAPTER - 22

# LITHOSPHERE



### After studying this chapter you learn :

- The meaning of lithosphere and its importance.
- The structure of the earth and its composition.
- Structure of rocks.
- About the internal forces-volcanoes, earthquakes, tsunami etc., and their effects on life on the earth.
- The external forces like temperature, wind, rain and rivers.
- The meaning of underground water and its importance.

### Meaning and importance

The outer-most solid layer of the earth is known as the 'Lithosphere' (Litho means 'rock'). This layer is very thick in the continents and quite thin under the sea floor. The lithosphere consists of rocks, minerals, soils etc. Life exists on this layer with the help of the atmosphere and the hydrosphere. Continents are parts of the lithosphere where different land forms like mountains, plateaus, plains, etc., are found.

### Earth's Interior and Composition

*Do you know, what is there inside the Earth?*

Our planet Earth is more than 4.6 billion years old and still in the process of changing. Man is in quest of understanding this change and eager to know more about inside the earth. What is inside the earth is still a mystery for man. With years of study and research human beings have been able to get information about the materials inside the earth up to 10 to 12 kms. Going beyond this depth is very difficult due to the increase of temperature ( $1^{\circ}\text{C}$  for every 32 meters).

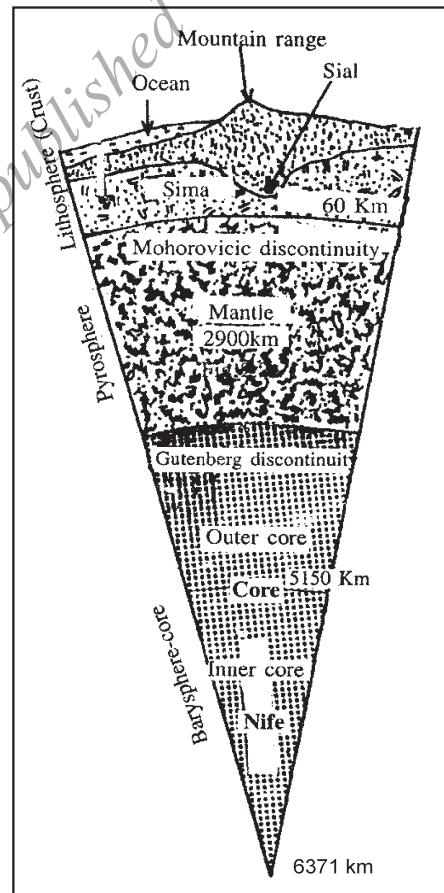
To understand more about the earth's interior humans are dependent on indirect evidences such as seismic waves, volcanic materials etc. The earth's interior comprises of various materials in different forms. On the basis of density of material, chemical composition and physical

state of matter the earth's interior is classified into 3 main layers. They are the Crust, the Mantle and the Core.

**The Crust:** The crust is the uppermost layer of the earth, rich in Silica, Aluminium and Magnesium. The depth of this layer is around 60 kms from the surface. In the upper part of the crust only lighter materials are found. It is called **SIAL** (Silica and Aluminium) or continental crust. The lower part of the crust is rich in Silica and Magnesium and it is called **SIMA** or oceanic crust.

**The Mantle:** The Mantle is the second and the middle layer of the earth. The depth of this layer is up to 2900 kms from the surface. The materials are in semi liquid or partially molten state which is called magma. The mantle is composed of dense and rigid rocks which have predominance of minerals like magnesium and iron. The mantle has two parts a) Upper mantle or the Asthenosphere is partially in a molten condition and b) Lower mantle or the Mesosphere in solid condition. The contact zone of the crust and the mantle is called 'Mohorovicic Discontinuity' or Moho. While the boundary that separates the Mantle from the Core is called 'Gutenberg Discontinuity'. Here the rocks are different in chemical composition from those below and above.

**The Core:** This is the innermost layer of the earth. The depth of this layer is up to 6371 kms from the surface. The most important materials of the core are Nickel and Ferrous (Iron). So it is known as NIFE. The core is divided into two sub layers a) The outer core is known as molten core, where the materials are in liquid and in molten form. b) The inner core known as solid core.



**Interior of the Earth**

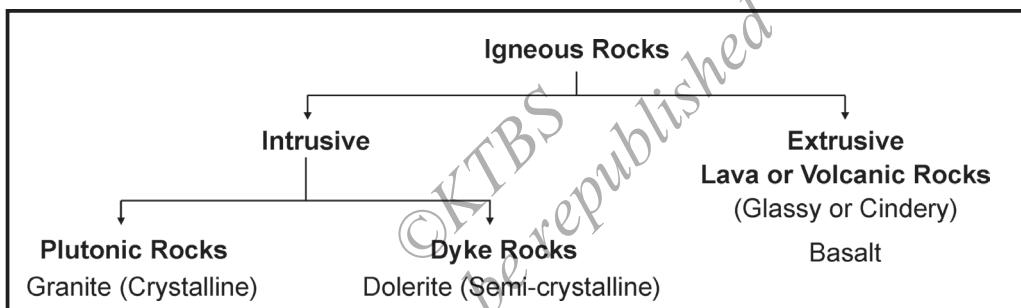
## Facts File

### Some deepest land mines in the world

1. The Akola peninsula of Russia is around 12 kms.
2. The Kimberly diamond mine in South Africa is around 3.9 kms
3. The Gold mine at KGF in India is around 1.5 kms.

## ROCKS

Rocks are the solid inorganic substances that are found in the crust of the earth. They are aggregates of minerals. Rocks are formed due to various natural processes. On the basis of mode of formation, rocks are classified into three types. They are **(1) Igneous rocks, (2) Sedimentary rocks and (3) Metamorphic rocks.**

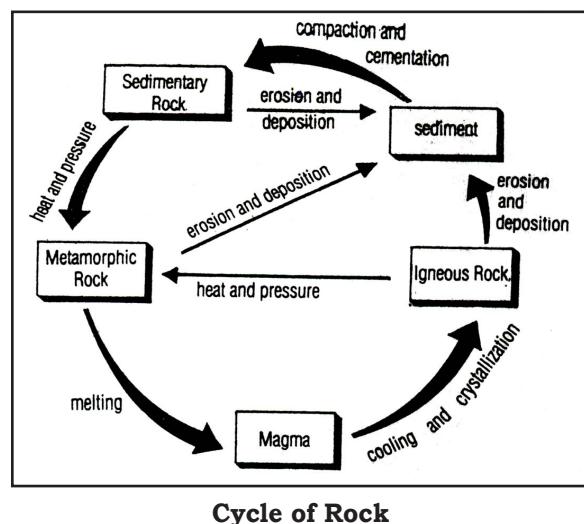


**1. Igneous Rocks :** The word 'Igneous' means 'fire' derived from the Latin word 'Ignis' or Sanskrit word 'Agni'. Igneous rocks are those which have been formed by the cooling of molten matter of the earth. Igneous rocks were the first to be formed, therefore they are also called Primary rocks.

**The two important types of igneous rocks are :**

#### **(i) Intrusive igneous rocks**

: When the molten materials (magma) of the Earth's interior

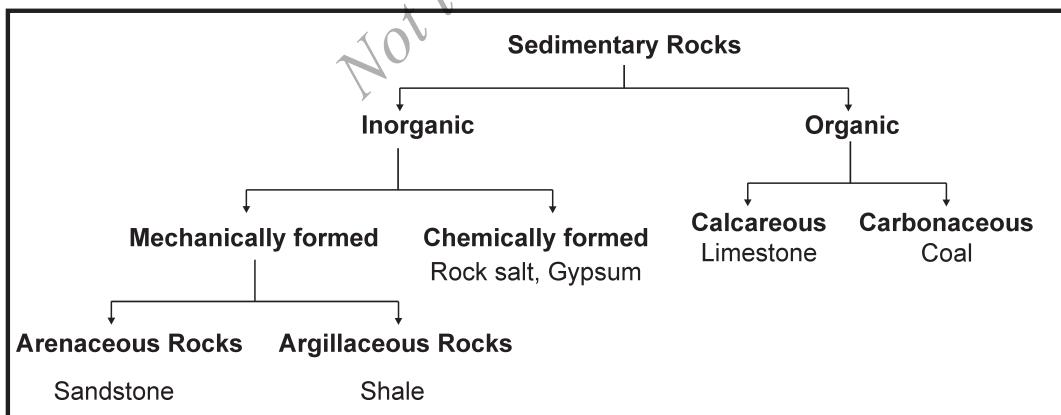


do not reach the earth's surface, they cool and solidify (quite slowly) below the surface and called intrusive igneous rocks. These rocks are made of large crystals and are found at great depth inside the Earth eg., Granite, Diorite and Gabbro.

**(iii) Extrusive igneous rocks:** Rocks formed by solidification of magma above the earth's surface are known as extrusive igneous rocks. These rocks are generally fine grained or glassy because lava after reaching the surface of the earth cools and solidifies quickly eg., Basalt and Andesite.

*The rock materials in the liquid or molten state is called 'magma' and when it comes out from the earth is called 'lava'.*

**2. Sedimentary Rocks :** The word Sedimentary is derived from a Latin word 'Sedimentum', which means 'settling down'. Sedimentary rocks are formed by the agency of water, wind and ice. These agents break and erode the igneous rocks, transport those broken fragments and deposit them at certain places. The deposit of these materials often occurs in the form of layers or strata. Therefore sedimentary rocks are called stratified rocks. The sedimentary rocks are formed after the disintegration of igneous rocks. Therefore they are called secondary rocks. These rocks are also called aqueous rocks because they are formed in the water bodies (Lake, Sea and Ocean beds).



**Mechanically formed sedimentary rocks:** Rocks built up by fragments of pre-existing rocks which have been produced by the processes of weathering and erosion eg., Sandstone (Arenaceous rocks) and Shale (Argillaceous rocks).

**Chemically formed sedimentary rocks:** Chemical sediments are commonly formed by the process of evaporation of water containing salts in solution eg., Rock salt, Gypsum etc.

**Organically formed sedimentary rocks:** Organic sediments are those derived by the accumulation of remains of organisms, such as shells of marine organisms, remains of plants and animals eg., Limestone (Calcareous rocks) and Coal (Carbonaceous rocks).

**3. Metamorphic Rocks :** Metamorphic rocks are those which are formed by the process of metamorphism or alteration of pre-existing rocks. Metamorphism means change of form which may be physical or chemical or both by the influence of heat and pressure.

**Example:**

- |                        |                           |
|------------------------|---------------------------|
| a) Granite -> Gneiss   | d) Sandstone -> Quartzite |
| b) Basalt -> Schist    | e) Coal -> Graphite       |
| c) Limestone -> Marble | f) Graphite -> Diamond    |

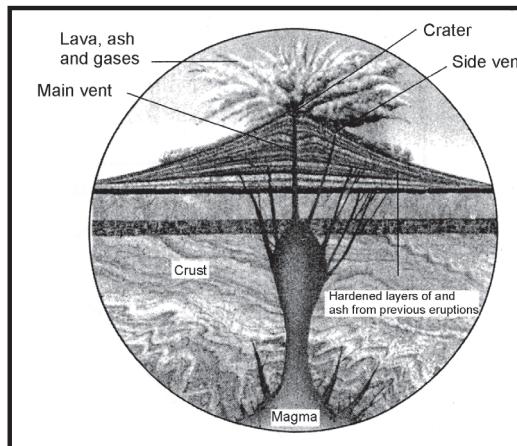
Metamorphic rocks are the hardest rocks on the earth. These rocks supply precious stones. ex :-Sapphire, Ruby and Emerald and Diamonds etc.

### FORCES OF THE EARTH'S CRUST

The Earth has two important forces that change the face of the earth. They are internal forces and external forces.

#### INTERNAL FORCES

These are the forces which originate inside the crust and influence the surface features of the earth eg., Volcanoes, Earthquakes etc. The internal forces are also called Endogenic forces.



**Structure of a volcano**

## VOLCANOES

A volcano is a vent or narrow opening in the Earth's crust connected by a pipe to an underlying magma chamber, through which magma, rock fragments, lava, ash, steam, flames and other gases are emitted from the interior of the Earth. A passage in the earth's crust through which magma and other volcanic materials are ejected is called 'Vent'. The funnel-shaped hollow at the top of the cone of a volcano is called 'Crater'. A large basin-shaped crater bound by steep sides is known as '**Caldera**'.

**Types of Volcanoes :** On the basis of the periodicity or frequency of eruption volcanoes are classified into three types.

**Active Volcanoes:** Volcanoes which constantly eject lava, gases, ashes etc., are known as active volcanoes. There are about 600 active volcanoes in the world eg., Mt. Stromboli and Mt. Etna in Italy, St. Helens in USA, Mauna Loa in Hawaiian islands, Pinatubo in Philippines etc.

**Dormant Volcanoes:** Dormant volcanoes are those which have erupted in the past and are likely to erupt again but have remained inactive for fairly long periods eg., Mt. Vesuvius in Italy, Mt. Fujiyama in Japan, Mt. Kilimanjaro in Tanzania, Mt. Krakatoa in Indonesia.

**Extinct Volcanoes:** Extinct volcanoes are those which were active in the remote geological periods. These are not likely to be active once again eg., Gorongoro in Tanzania, Arthur's Seat in Scotland.

### Facts file

#### **Super volcanic eruptions of the world**

1. Mt. Vesuvius (Italy)
2. Mt. Krakatoa (Indonesia)
3. Mt. Pelee (West Indies)
4. Mt. Fujiyama or Fuji, a volcano worshipped by people of Japan.

**Volcanic materials:** The materials ejecting out from the volcanoes are of three types. **Solid:** Volcanic bombs, cinders, scoria, pumice, dust, ash. **Liquid:** Lava. **Gases:** Sulphur, Hydrogen, Carbon dioxide.

**Distribution of Volcanoes:** Volcanoes occur in many regions of the world, including islands, young mountain ranges and plateaus of the continents. Most important regions are: **1. The Circum-Pacific Belt or Pacific Ring of Fire:** Coastal margins of the Pacific Ocean consisting of Philippines, Japan, USA, Central America, South America etc. **2. Mid-Atlantic Belt:** Iceland, West Indies **3. Mid-Continental Belt:** Italy, Spain, France, Greece, Turkey etc., **4. Important Islands:** Hawaii, Indonesia.

## EARTHQUAKES

Earthquake is a shock or series of shocks or tremors, due to a sudden movement of crustal rocks generated within the crust or mantle.

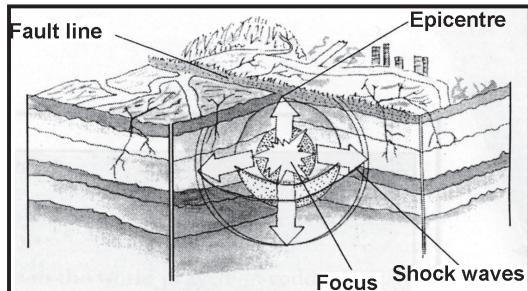
The point of origin of the earthquake in the earth's crust is called the Seismic focus or Hypocentre.

The point on the earth's surface vertically above the seismic focus is called the Epicentre.

The scientific study of earthquakes is called Seismology. The origin, time, velocity and direction of seismic waves are recorded by an instrument known as Seismograph.

## Causes of the Earthquakes

**Plate Tectonics:** The earth's crust consists of many major and minor plates. These plates are not stationary. The plate boundaries are dynamic places and are the primary location of earthquake activity (Circum-Pacific Belt).



**Actions of Earth quake**

**Volcanic Eruptions:** Volcanic earthquakes are caused by gas explosions (Krakatoa volcano of Indonesia).

**Faulting:** A fault consists of a fracture in a rock along with a great deal of displacement takes place. Earthquakes occur when movement of plates takes place along a line of fracture (San Andreas fault of California in USA).

**Man made factors:** Over interaction of man with nature is also one of the main causes of the occurrence of many of the earthquakes. The extraction of minerals, deep underground mining, huge dams and reservoirs, nuclear tests etc., (Koyna dam in Maharashtra, Hoover dam in USA).

### **Earthquake Waves**

The earthquake or seismic waves originate in the seismic focus and travel towards the epicentre in ripples or concentric circles. The three important earthquake waves are:

**1. Primary Waves (PW):** Primary waves are also known as longitudinal or compressional waves. These are the fastest earthquake waves and the first waves to reach the surface. They can pass through solid, liquid and gaseous matters.

**2. Secondary Waves (SW):** Secondary waves are also known as transverse or distortional waves. These waves cannot pass through liquids. They reach the epicentre after the primary waves.

**3. Surface Waves (LW):** Surface waves are also called long waves. They are the slowest earthquake waves but are responsible for the highest destruction on the surface of the earth.

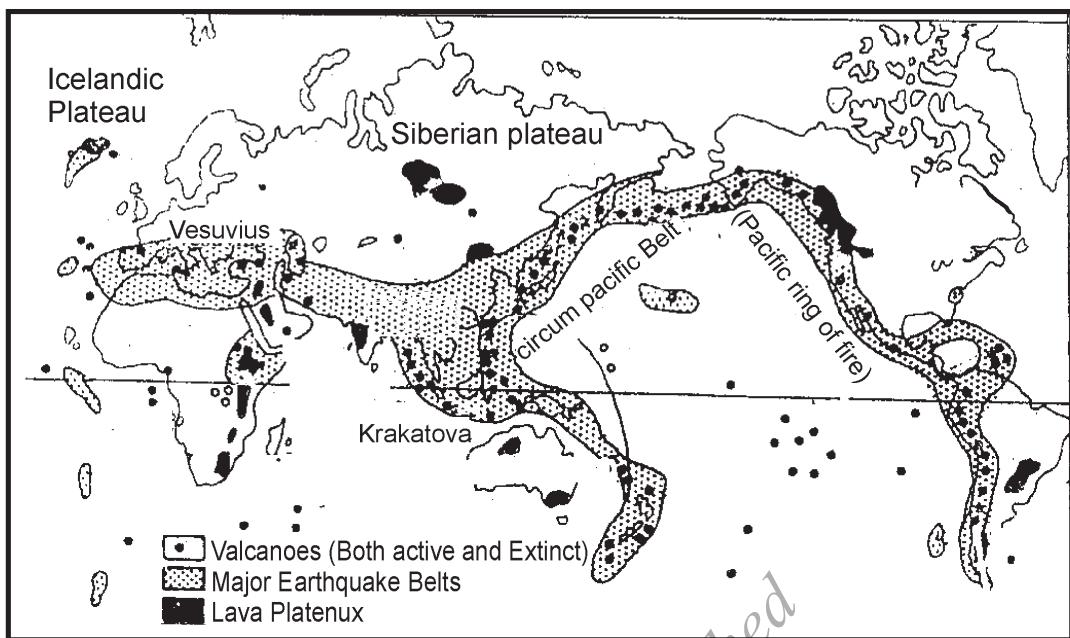
The magnitude and intensity of earthquakes is recorded by using **Richter scale**.

The Earthquakes are very dangerous and destructive. They cause large-scale deaths, loss to property, landslides, flash floods, damage to bridges, roads, railway lines etc.

**Tsunami:** Tsunami is a large sea wave occasionally experienced along the coasts of Japan and in other regions caused by an underwater earthquake. In Japanese language 'Tsunami' means 'harbour waves'.

#### **Facts file**

1. On 26th Dec, 2004 a Tsunami in the Indian ocean swept the coastal low lands of Indonesia, India, Sri Lanka, Thailand etc.
2. On 11th Mar, 2011 a Tsunami in the Pacific ocean caused huge damage in the eastern coastal regions of Japan (Fukushima, Sendai, Miyagi etc).
3. Some seismic recording centers of India: Gowribidanur, Kodaikanal, Pune, Hyderabad, Dehradun.



## Earthquakes and Volcanic Regions

### **EXTERNAL FORCES:**

External forces are the natural forces that modify the surface of the earth. The important forces are temperature, wind, rainfall, snowfall, river, glacier etc., These forces act on the surface of the earth and constantly change its features.

**Weathering:** Weathering is the wearing away or breaking down or gradual disintegration of rocks by agents (Temperature, rainfall, wind etc.) present in the atmosphere. The three types of weathering are:

- Mechanical weathering:** When the rock is broken and disintegrated without any chemical alteration, the process is called Physical weathering or Mechanical weathering. The important processes of mechanical weathering are Granular disintegration, Block disintegration and Exfoliation. The agents of mechanical weathering are temperature, wind, frost etc.
- Chemical weathering:** Chemical weathering is mainly brought about by the action of substances dissolved in rainwater. This type of weathering results in changing the composition of minerals

present in the rocks. There are four types of chemical weathering. They are:

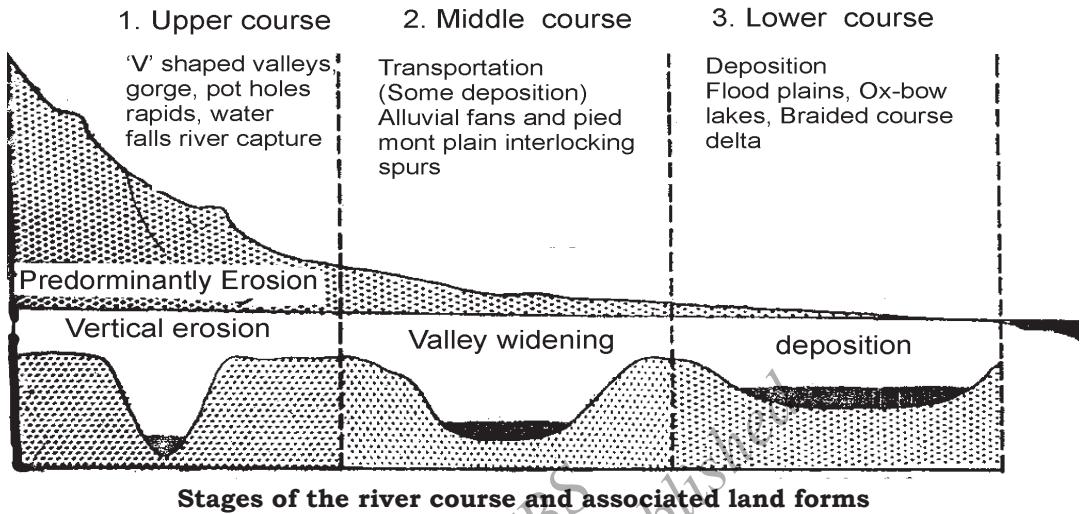
- a. **Oxidation:** In this type of chemical weathering oxygen dissolved in water reacts with certain minerals, especially iron, to form oxides.
  - b. **Carbonation:** When the rainwater falls on limestone rocks, the calcium carbonate present in the rocks absorbs carbon dioxide from rainwater and becomes calcium bicarbonate.
  - c. **Hydration:** Hydration is the process by which some minerals in crystalline form absorb water and become a powdery mass. Feldspar is a common rock forming crystalline mineral.
  - d. **Solution:** When the rain falls on the surface of the land, rainwater dissolves soluble minerals present in the rocks.
3. **Biological weathering:** Living organisms like plants, animals and human beings play a role in one way or another in the weathering of rocks. This type of weathering includes both physical and chemical weathering. (a) **Plants:** Growth and expansion of roots. (b) **Animals:** Burrowing animals, earthworms, rabbits, rats. (c) **Human beings:** Mining, quarrying, construction works.

## DENUDATION

**Agents of Denudation:** Denudation is the action of changing landscape or changing the surface of the earth by various natural agents such as Rivers, Glaciers, Underground water, Wind, Sea waves etc., The work of these natural agents are Erosion, Transportation and Deposition. These processes produce distinct relief features.

**River:** A mass of fresh water flowing from its source to mouth along a definite course is called 'River'. The river is a most prominent agent of denudation. The place where a river takes its birth is called 'Source' and 'Mouth' is the point where it meets sea or ocean. 'Tributaries' are the feeders or small streams which supply water to river along its course. The point where a tributary joins the main river is called 'Confluence'.

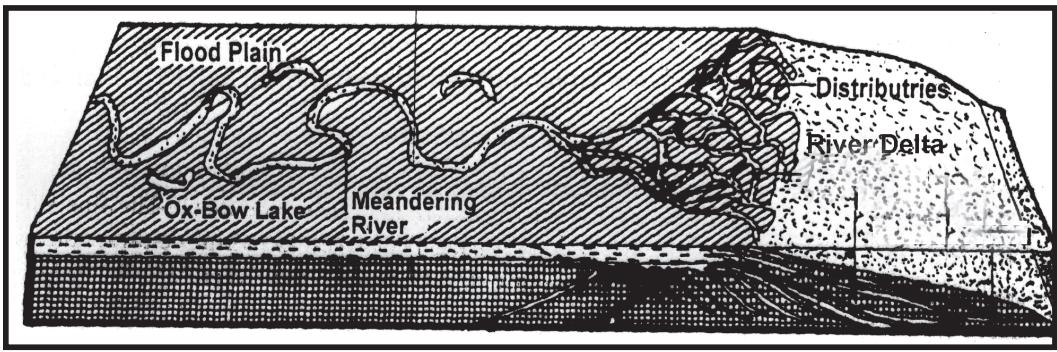
**Course of the River:** The course of a river from its source to mouth is divided into three stages. These stages are Upper course, Middle course and Lower course.



**The Upper Course:** Vertical erosion is most common due to steep slopes leading to deepening of valleys, resulting in the formation of gorges, canyons, 'V' shaped valleys, waterfalls (Angel falls, Niagara falls, Jog falls).

**The Middle Course:** In the middle course, the river path has a moderate slope and velocity is less than that in the upper course. The volume of water increases when many tributaries join the main river. The main work of the river in this stage is transportation of sediments and little deposition. The important landforms in this stage are Alluvial fans, Meanders.

**The Lower Course:** In this stage the slope of the river course is very minimum. The volume of river water is more and deposition is the main work of the river. The important landforms in this course are Flood plains, Natural levees, Ox-bow lakes, Deltas (Sundarban delta, Nile delta).



**"The work of river is called "Fluvial Cycle".**

**Facts File:**

Estuary – Tidal mouth of a river broadening into the sea / ocean.

Delta – A fan shaped, low lying area of deposits at a river mouth.

**GLACIER :** Glaciers are slowly moving, compacted masses of ice and snow found in the high mountains and polar regions. The mass of ice or snow is pulled down by its weight and due to the force of gravity.

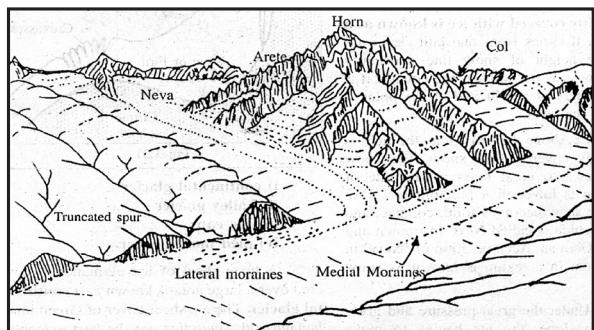
**Types of Glacier:** Glaciers are divided into two types a)Continental glaciers and b)Mountain glaciers.

**Continental glaciers:** Continental glaciers are extensive ice sheets found in polar regions eg., Greenland and Antarctica.

**Mountain or Alpine or Valley glaciers:** The glaciers found in the Polar regions regions are called Mountain glaciers.

Glacier as an agent of denudation performs the work of erosion, transportation and deposition. The erosional work of glaciers is mainly side cutting. The landforms resulting by this are Cirque, Horn, Arete, 'U' shaped valleys, Hanging valleys, Rock steps etc.

The transportation and the deposition work of glaciers



**Work of Glacier**

goes almost together. The important depositional landforms produced by glaciers are Moraines, Drumlins, Esker, Kames, Outwash plains, Till plains etc.

'Moraines' are the most important landforms of the glaciated region. Moraines are of four types. **a) Lateral moraines:** Rock debris deposited along the sides of the glacial valley. **b) Medial moraines:** When two lateral moraines meet, it forms medial moraines. **c) Ground moraines:** Rock materials found on the floor or at the bottom of the glacial valley. **d) Terminal moraines:** The glacial deposits found at the end of the glacier.

***The work of Glacier is called "glacial cycle."***

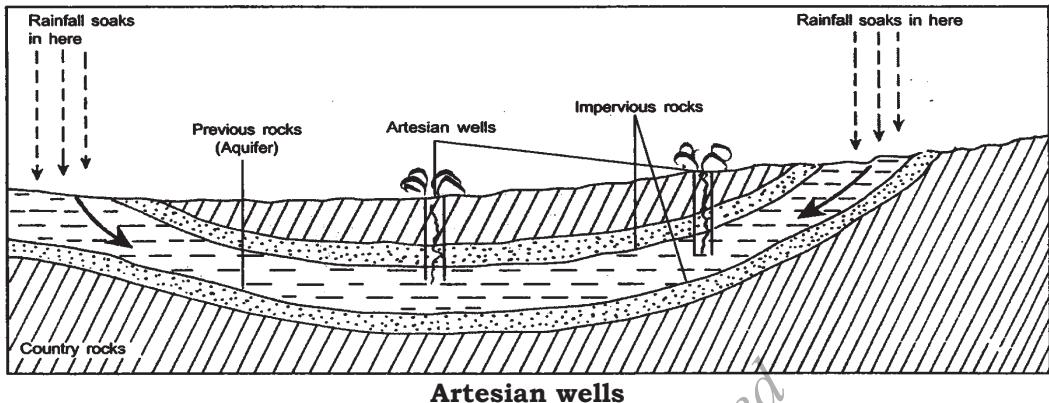
## **UNDERGROUND WATER**

Underground water is the subsoil water found on account of percolation or seepage of water into the ground. The underground water which seeps into the ground passes through various layers of rocks. The rocks which allow the water to percolate are called 'pervious' or 'porous' rocks and the rocks which do not allow the water inside are called 'impervious' or 'non-porous' rocks. The porous rock beds which hold large amount of underground water are called aquifers. The pervious rocks allow and hold water and form springs. A Spring is a place where the underground water comes out naturally.

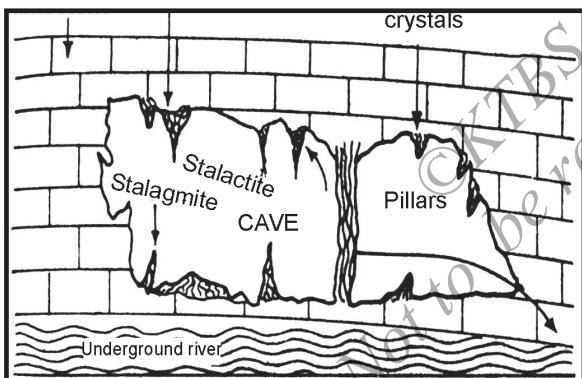
### **Types of spring:**

- 1. Perennial spring:** It is a spring through which water comes out continuously.
- 2. Intermittent springs:** These are springs through which water comes out intermittently (not continuous) and they are also called 'Periodic spring'.
- 3. Hot springs:** Whenever warm or hot water comes out naturally it is called hot spring or thermal spring. They are usually found near the volcanic regions.
- 4. Geyser:** Geysers throw a jet of hot water (like a fountain) and steam into the air at regular or irregular intervals eg., Old Faithful in Yellowstone National Park of USA.

**5. Artesian wells :** When underground water is stored in a basin shaped layer between two non-porous rocks, the water cannot come out naturally. If an artificial hole is made to the porous rock, the water comes out like a fountain. These are called Artesian wells. These wells are common in Australia.



Artesian wells



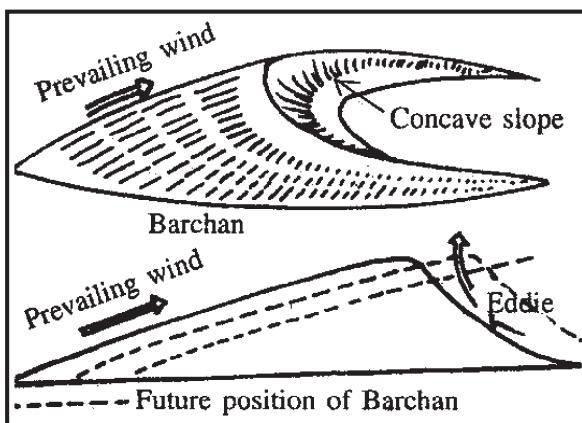
Activity of Under ground water

Lapies, Sinkholes, Limestone caves, Stalactites, Stalagmites, Calcite pillar etc.

#### Facts File : Limestone caves

1. Akalagavi (Ulavi) caves of Uttara Kannada in Karnataka
2. Belum and Bohra caves of Andhra Pradesh

Underground water performs the work of erosion, transportation and deposition. The work of underground water is predominant in limestone region. The important landforms associated with the underground water are



Barchans

*Relief features formed by underground water in limestone region is called '**Karsttopography**'.*

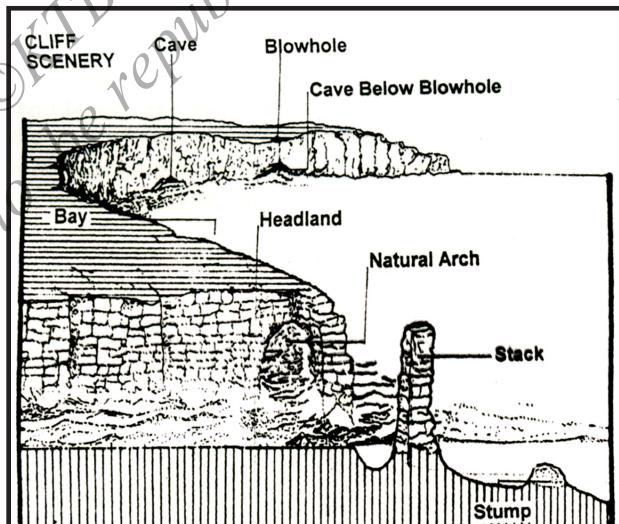
## **WIND**

The denudation work of wind is common in the arid or desert regions. When the winds of high velocity blow over desert areas they erode, transport and deposit materials to produce different landforms. The important landforms associated with the erosional work of the wind are Rock pedestals, Mushroom rock, Inselberg. The depositional landforms are Sand dunes – Longitudinal sand dunes, Barchans and Loess deposits.

**Barchans** are semi-circular or crescent shaped sand deposits most common in the deserts. Loess is the sand particles found beyond the borders of deserts (Yellow soil in China).

***Work of wind is called “Aeolian cycle”.***

**SEA WAVES :** Like all other agents, sea waves are also an important exogenic agent of denudation. Sea waves are the regular undulation of water on the sea or ocean. The work of sea waves is significant along the sea shore or coasts. The important landforms associated with sea waves are Cliff, Sea cave, Sea stack, Sea arch, Headland, Sand bars, Beaches, Lagoons etc.



**Sea Waves**

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

1. The continental crust is also called \_\_\_\_\_.
2. Vast basin shaped volcanic mouth is \_\_\_\_\_.
3. The most destructive earthquake waves are \_\_\_\_\_.
4. Stalactites and Stalagmites are most common in \_\_\_\_\_.
5. The Beaches are formed by \_\_\_\_\_ work.

### **II Answer the following questions :**

6. Mention the three major layers of the interior of the Earth.
7. Name the types of volcanoes on the basis of frequency of eruption.
8. Mention the important earthquake zones of the world.
9. What is weathering? Name the three main types of weathering.
10. Name the landforms associated with the work of river.

### **III. Match the following :**

#### **A**

11. SIMA
12. Sandstone
13. Epicentre
14. Geyser
15. Loess

#### **B**

- a) Earthquake
- b) Yellow soil
- c) Oceanic crust
- d) Sedimentary rock
- e) Underground water

### **IV Define the following :**

- |                            |                         |
|----------------------------|-------------------------|
| 16. Aqueous rocks          | 20. Tsunami             |
| 17. 'Pacific ring of fire' | 21. Continental glacier |
| 18. Mechanical weathering  | 22. Hot spring          |
| 19. Carbonaceous rocks     | 23. Carbonaceous rocks  |

**V Terms to remember :**

- |                                       |                      |
|---------------------------------------|----------------------|
| 24. NIFE                              | 27. Mountain glacier |
| 25. Arenaceous and Argillaceous rocks | 28. Aeolian cycle    |
| 26. Tectonic forces                   | 29. Beaches          |

**VI Activities :**

30. Collect the different rocks from your environment.
31. Visit nearest falls and know how they are formed ?

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## CHAPTER-23

# ATMOSPHERE



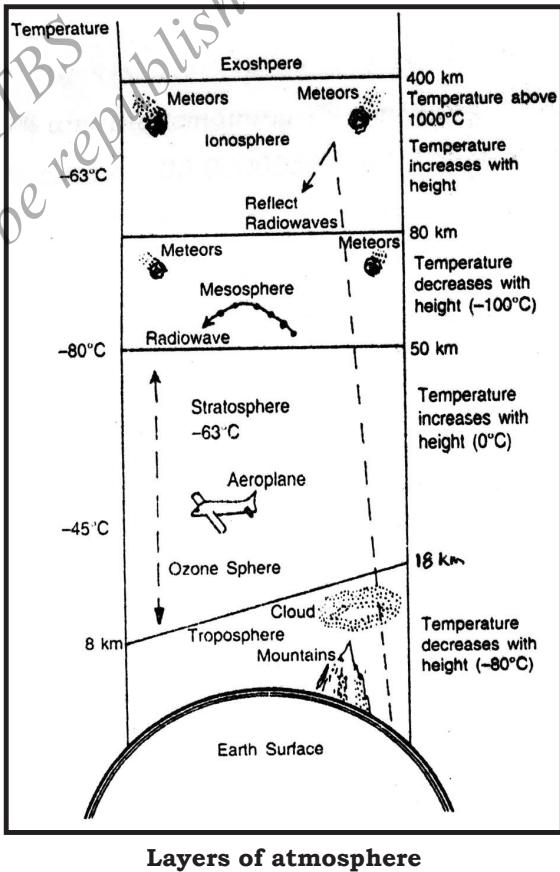
**After studying this chapter you learn :**

- The meaning, importance, composition and formation of atmosphere.
- About the components of atmosphere, temperature, pressure, winds humidity, clouds and their functions and effects.
- The differences between atmosphere and climate.

Do you know, how we are protected and helped by the envelope of air ?

**M e a n i n g a n d importance:** Atmosphere is a thin layer of gases, dust particles and water vapour surrounding the Earth. This layer of gases forms protective boundary between the outer space and the Earth's surface. The thickness of the atmosphere is around 1000 kms. Atmosphere is very important for all forms of life on the earth. Different gases of atmosphere help plants, animals and human beings. Atmosphere traps heat and makes Earth a planet for all the living organisms.

**C o m p o s i t i o n o f atmosphere:** The atmosphere is a mixture of different gases,



dust particles and water vapour. The important gases in the atmosphere are Nitrogen - 78.08%, Oxygen- 20.94% and the remaining 1% consists of Argon - 0.93%, Carbon dioxide - 0.03%, Ozone - 0.000005% etc. The atmosphere also contains dust particles which help us in the formation of water droplets. The water vapour in the atmosphere is the source of clouds and precipitation. The atmosphere traps heat and energy and has influence on the weather conditions of a place.

**Layers of Atmosphere:** The atmosphere may be divided into five important layers on the basis of its characteristic features. These are: Troposphere, Stratosphere, Mesosphere, Thermosphere (Ionosphere) and Exosphere.

**Troposphere :** Troposphere is the lowest layer of the atmosphere. It extends upto 18 kms at the equator and 8 kms near the poles. This layer has all the atmospheric elements such as temperature, pressure, winds, clouds, rainfall etc. All weather changes occur in the troposphere. Temperature and pressure decrease with the increase of altitude.

**Stratosphere :** Stratosphere is the second layer of the atmosphere. This layer extends upto 50 kms from the surface. It lies between troposphere and mesosphere. In this layer Ozone is the most important gas which absorbs 'ultraviolet rays' of the sun and protect all forms of life on the Earth. This layer is free from clouds and other important weather phenomenon and provides ideal flying conditions for jet aircrafts.

**Mesosphere :** Mesosphere is the third layer in the Earth's atmosphere. It extends up to 80 kms from the surface and lies above stratosphere. In this layer temperature decreases with the increase in altitude. This layer has the coldest temperature in the atmosphere.

**Thermosphere :** Thermosphere layer lies next to Mesosphere. In this layer temperature rises drastically. It is also called 'Ionosphere' as the gaseous atoms are ionized due to very high temperature. The ions found in this layer help in reflecting radio waves.

**Exosphere :** Exosphere is the top most layer of the atmosphere. In this layer elements of atmosphere are rare and pressure is extremely low.

## Elements of Weather

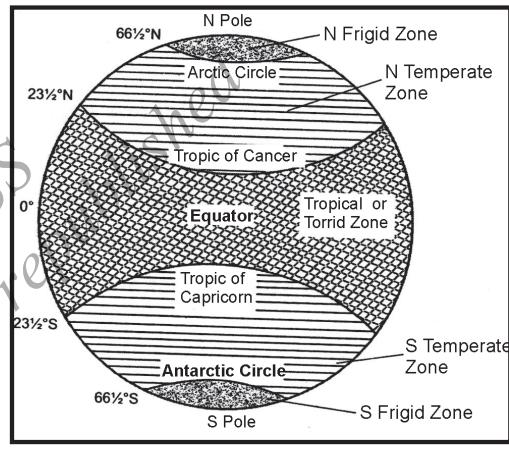
Weather condition of a place is influenced by various elements such as temperature, pressure, wind, humidity, clouds, rainfall etc.

*Atmospheric condition of a place at a given time is called '**Weather**'. In contrast the average weather condition of an area over a long period of time is called '**Climate**'.*

## TEMPERATURE

The Sun is the main source of energy to the Earth which supplies heat through insolation. Insolation means incoming solar radiation from the sun to the Earth. Temperature is recorded by an instrument called 'thermometer'. Centigrade and Fahrenheit are the important thermometers used to measure atmospheric temperature. The important factors that influence atmospheric temperature are latitude, altitude or height, distance from the sea, wind, ocean currents, relief, clouds, rainfall etc.

**Normal lapse rate :** It is the decreasing rate of temperature with the increase of altitude. The rate of decrease is  $1^{\circ}$  C for every 165 meters or  $6.4^{\circ}$  C for every 1000 meters of height (1 km).



**Temperature Zones**

**Inversion of temperature :** In some situations temperature also increases with increasing height. This takes place in mountain valleys during long winter nights with clear sky, dry air, no wind and snow covered surface.

**Temperature Zones :** The distribution of temperature is not uniform on the Earth's surface. On the basis of insolation, the globe is divided into three temperature zones. They are:

**Torrid zone :** This is the zone of high temperature. This region is found between  $0^{\circ}$  or Equator and Tropic of Cancer in

the north ( $23\frac{1}{2}^{\circ}$  N) and the Equator and Tropic of Capricorn ( $23\frac{1}{2}^{\circ}$  S) in the south. This region receives direct rays of the Sun.

**Temperate zone :** This is the region where the temperature is neither very hot nor cold. This region lies between  $23\frac{1}{2}^{\circ}$  N to  $66\frac{1}{2}^{\circ}$  N (Tropic of Cancer to Arctic circle) and  $23\frac{1}{2}^{\circ}$  S to  $66\frac{1}{2}^{\circ}$  S (Tropic of Capricorn to Antarctic circle).

**Frigid zone :** It is the coldest region. This zone is found between  $66\frac{1}{2}^{\circ}$  N to  $90^{\circ}$  N (Arctic circle to North pole) and  $66\frac{1}{2}^{\circ}$  S to  $90^{\circ}$  S (Antarctic circle to South pole). The temperature in this zone is very low due to slanting rays of the sun. In summer temperature is slightly high and in winter the temperature is low.

**Isotherms :** Isotherms are lines drawn on the map or globe connecting places having the same temperature.

#### **Facts file :**

##### **Places of highest and lowest temperature**

1. Al Aziziya of Libya in Africa has recorded the highest temperature (average  $+58^{\circ}$  C) Whereas Verkhoyansk of Siberia has recorded the lowest temperature (average  $-24^{\circ}$  C).
2. In India Ganganagar of Rajasthan recorded the highest temperature in summer (average  $+54^{\circ}$  C) and Leh of Jammu and Kashmir has recorded the lowest temperature (average  $-10^{\circ}$  C) in winter.
3. Vostok of Antarctica is considered as the coldest place (average temperature  $-89^{\circ}$  C) on the Earth.

## **ATMOSPHERIC PRESSURE**

Air has weight and it exerts pressure. This is called atmospheric pressure. Air pressure is measured by an instrument called Barometer. The unit used to show the pressure is millibar (mb). The average air pressure of the atmosphere at the sea level is 1013.25 mb. The atmospheric pressure is affected by many factors such as temperature, rotation of the Earth, altitude, water vapour etc. Temperature is the most important factor that influences atmospheric pressure. The regions which have high temperature record low pressure due to expansion of air, while the regions of low temperature have high pressure due to contraction of air. Thus temperature and pressure

are inversely related. The atmospheric Pressure decreases with the increase in altitude. The amount of decrease is about 34 mb per every 300 meters altitude.

### Major pressure belts of the Earth

1. The Equatorial low pressure belt
2. North Sub- tropical high pressure belt
3. South Sub-tropical high pressure belt
4. North -Sub- Polar low pressure belt
5. South Sub-polar low pressure belt
6. North Polar high pressure belt
7. South Polar High pressure belt

**Equatorial low pressure belt:** The equatorial low pressure belt is a zone of high temperature and low pressure. It lies between  $0^{\circ}$  to  $5^{\circ}$  North and South of the equator. This region gets direct rays of the Sun almost throughout the year. Hence air is always very warm and hot. This is a calm region with very little wind. So it is known as 'Doldrum' means 'belt of calm' (equatorial calm). This region is also called Inter- Tropical Convergence Zone (ITCZ) where the trade winds converge.

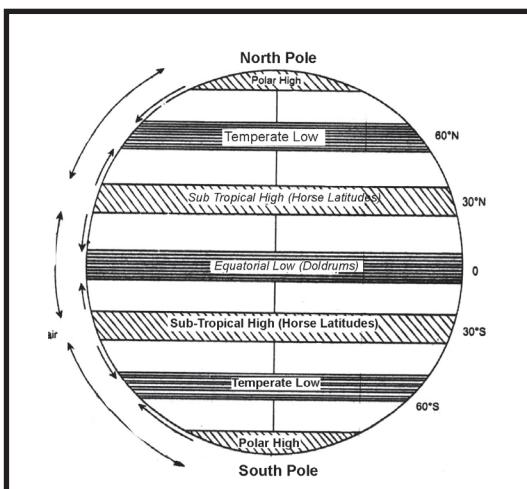
**Sub-tropical high pressure belts:** Sub-tropical high pressure belts are found between  $30^{\circ}$  and  $35^{\circ}$  north and south of the equator.

There are two sub-tropical high pressure belts. **(a) North sub-tropical high pressure belt:**

This belt is found between  $30^{\circ}$  to  $35^{\circ}$  north latitudes. This region is also popularly called 'Horse latitudes'.

**(b) South sub-tropical high pressure belt:** This belt is found between  $30^{\circ}$  to  $35^{\circ}$  of south latitudes.

**Sub-polar low pressure belts:** Sub-polar low pressure region is found between  $60^{\circ}$  to



65° north and south of the equator. There are two sub-polar low pressure belt (a) **North sub-polar low pressure belt** (60° north to 65° north). (b) **South sub-polar low pressure belt** (60° south to 65° south). These are stormy especially in winter.

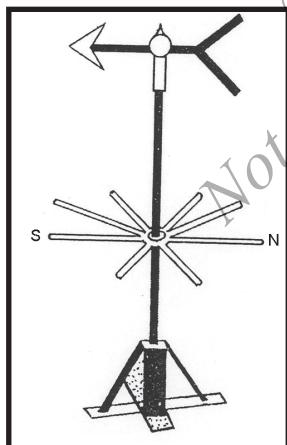
**Polar high pressure belts:** Polar high pressure belts region is found between 80° to 90° north and south latitudes in both hemisphere. These are extremely cold regions with very high pressure throughout the year.

**Isobars:** These are imaginary lines drawn on the map or globe connecting places having the same pressure.

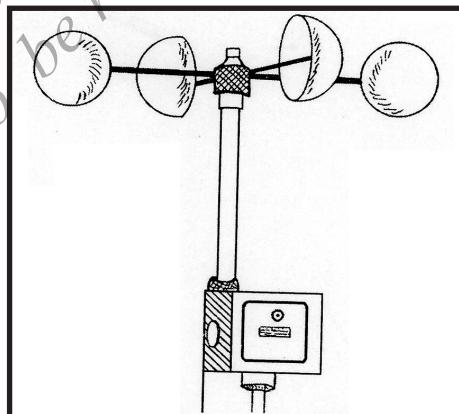
## WIND

Wind is the horizontal movement of the air on the surface of the Earth. Wind blows on the Earth due to rotation of the Earth and difference in pressure.

The direction of the wind is shown by an instrument called 'wind vane' or 'weather cock'. 'Anemometer' is used to measure the speed of the wind.



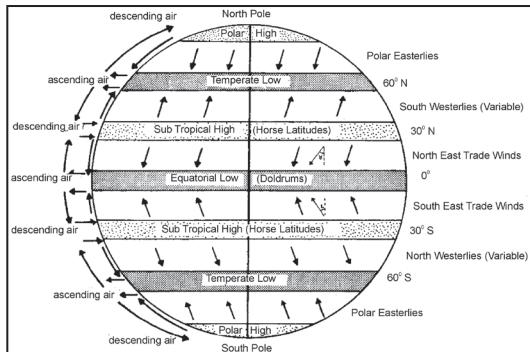
**Wind Vane**



**Anemometer**

**Types of wind :** Winds are classified into 4 major types. They are; Planetary winds, Seasonal winds, Local winds, Cyclones and Anti cyclones.

**1. Planetary Winds:** Planetary winds are also called 'Permanent winds' or 'Prevailing winds' or 'Regular winds' which blow more or less in the same direction through out the year. These winds play a major role in climate change, desert formation, guide navigation routes, etc. There are three types of planetary winds. Trade winds, Anti-trade winds and Polar winds.



**Planetary Winds**

**Trade Winds :** These winds blow from sub-tropical high pressure belts to equatorial low pressure region. The trade winds in the northern hemisphere blow from NE to SW direction (North East trade winds) and in the southern hemisphere they blow from SE to NW direction (South East trade winds).

**Westerlies or Anti-trade Winds :** These winds blow from sub-tropical high pressure belts to sub-polar low pressure belts. These are from south-west to north-east in northern hemisphere and north-west to south-east in the southern hemisphere. The westerlies of southern hemisphere are very strong over the oceans. Hence they are called 'Roaring forties' ( $40^{\circ}$  south latitude), 'Furious fifties' ( $50^{\circ}$  south latitude) and 'Shrieking sixties' ( $60^{\circ}$  south latitude).

**Polar winds :** These are also called Easterlies. These winds blow from polar high pressure belts to sub-polar low pressure belts. They blow from North East to South West in the northern hemisphere and South East to North West in the southern hemisphere. These are the cold dry winds blowing from the polar ice-caps.

**2. Seasonal Winds:** Seasonal winds are also called periodic winds. These winds change their direction periodically or seasonally. The monsoon winds of India are the typical periodic winds. In India South west monsoon winds blow from SW to NE direction during June to September and North east monsoon winds blow from NE to SW direction from late September to middle of December.

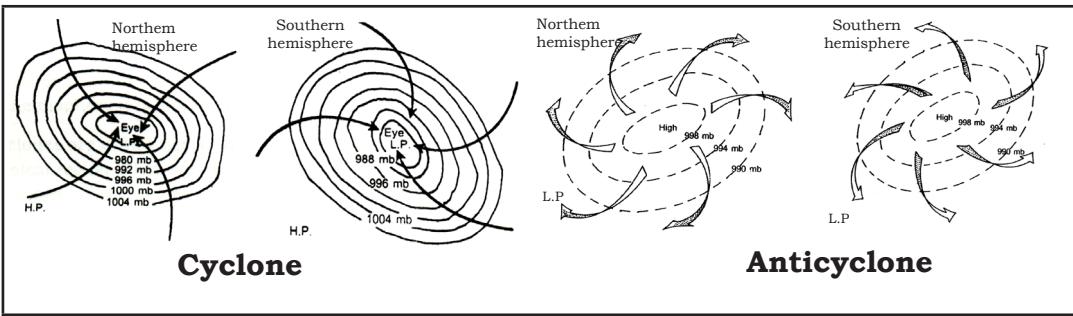
**3. Local Winds:** Periodic winds are the result of variation in local temperature, pressure, humidity which in turn are attributed to the formation of air currents, crossing mountain ranges, valleys and other relief barriers. The important periodic and local winds are Land breeze, Sea breeze, Mountain breeze (Katabatic winds), Valley breeze (Anabatic winds) and other few winds are Loo (India), Chinook or Snow eater (USA), Fohn (Alps region), Mistral (France), Sirocco (Sahara region), Brick Fielder (Australia), Blizzard (Antarctica) etc.

**4. Cyclones and Anti-cyclones:** These winds blow due to great variation in pressure. These are temporary but sometimes dangerous and destructive.

**a. Cyclones:** Cyclone is a small low pressure area in the centre surrounded by high pressure. The winds blow spirally towards the low pressure area. In the northern hemisphere the direction of cyclonic winds is anti-clockwise or counter clockwise and in the southern hemisphere it is clockwise. Cyclones are of two types: • **Tropical cyclones:** These are found in the tropical region. They are very powerful and disastrous. • **Temperate cyclones:** These are found in the temperate region. They are comparatively less strong and less dangerous.

Cyclones are called by different names in different regions. Japan and China – **Typhoon**, USA and Mexico – **Hurricane**, Australia – **Willy willes**, India – **Cyclone**, Russia – **Whirlpool**. In the last few years Indian coasts has experienced few disastrous cyclones. Some of them are Bola, Nargis, Nisha, Aila, Laila, Bijli, Jal etc.

**b) Anti-Cyclones:** An anti-cyclone is a high pressure area in the centre with winds blowing outwards, towards the low pressure areas. In the northern hemisphere the direction of anti-cyclone wind is clockwise and in the southern hemisphere it is anti-clockwise.



## HUMIDITY

Humidity is the amount of water vapour or moisture present in the air. Humidity is measured by using an instrument called Hygrometer or Psychrometer.

**Types:** Humidity is expressed in different ways. Important among them are Absolute humidity, Relative humidity and Specific humidity.

- **Absolute humidity:** This refers to total amount of water vapour present in a given volume of air. It does not take temperature into consideration.
- **Relative humidity:** Relative humidity is the ratio between the actual amount of water vapour present in the air and the amount of water vapour the air can hold at that temperature. It is expressed in percentage.

The actual amount of water vapour in the air

$$\text{Relative humidity} = \frac{\text{Actual amount of water vapour}}{\text{Maximum amount of water vapour}} \times 100$$

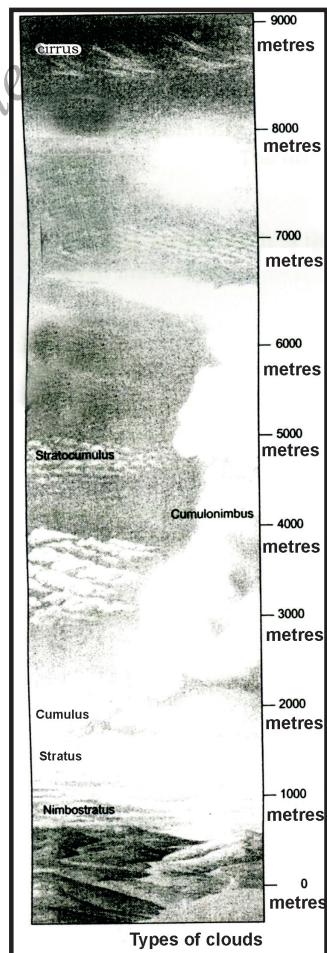
The maximum amount of water vapour the air can hold

- **Specific humidity:** It is the actual amount of water vapour present in a given mass of air.

## CLOUDS

Cloud is a mass of small water drops or ice crystals, formed by the condensation of the water in the atmosphere, usually at a considerable height above the Earth's surface.

**Types of clouds:** Clouds are classified on the basis of their shapes and heights at which they occur. The important types of clouds are



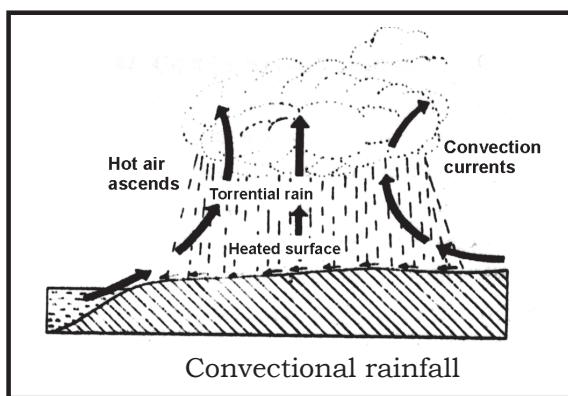
the Stratus, the Cumulus, the Cirrus and the Nimbus clouds.

- **Stratus:** Stratus clouds are usually low clouds occurring at less than 2 km of height. They appear as thin sheets or layers of large extent. Stratus clouds are associated with fair weather.
- **Cumulus:** Cumulus clouds are cauliflower-shaped clouds of great vertical extent. The base of cumulus clouds is nearly horizontal, while the top has a dome-shaped appearance. These are popularly called 'wool packs'. Cumulus clouds are rain-bearing clouds.
- **Cirrus:** Cirrus clouds are the highest clouds in the atmosphere. These clouds resemble 'curls of hair', have a feathery or fibrous appearance. They indicate fair weather and often given a brilliant sunset. They look like patches of cotton fibres floating in the air. Their popular name is 'mare's tail' or 'witch's broom'
- **Nimbus:** Nimbus clouds are rain clouds which occur at low levels. These clouds have the shape of stratus or cumulus. They are dark-grey or black in appearance. They cause heavy rainfall or snowfall. The Nimbo-stratus are thick, heavy, rain bearing clouds.

## RAIN FALL

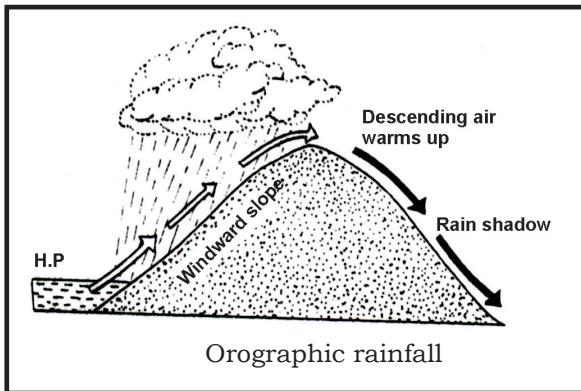
Precipitation in the form of water droplets is called rainfall. The total amount of rain received on a given area during a given time as measured by a rain gauge in MM or inches.

**Types of Rainfall:** Rainfall is of three types. They are Convectional rainfall, Orographic rainfall and Cyclonic rainfall.



**Convectional rainfall:** The rain caused by the process of convection is called convectional rainfall. In areas of high temperature, air rises up due to heating. This rising air cools, gets saturated, condensation takes place and later rainfall occurs. Convectional rainfall is very

common in the equatorial region and also in the tropical regions in summer. In the equatorial region, convectional rainfall is called 'afternoon rain', as it occurs mostly in the afternoon. It is accompanied by thunder and lightning.



### Orographic rainfall:

Orographic rainfall is also called 'Mountain rainfall' or 'Relief rainfall'. When moisture laden air is obstructed by a mountain barrier, the air is forced to rise up. As the air rises upwards, it cools and gets saturated. Further cooling of this air causes

condensation resulting in orographic or mountain rainfall. The windward side of the mountain receives more rainfall, while the leeward side receives less. The leeward side is generally called the 'rain shadow region' eg., Mangalore is the windward side and Hassan the leeward side or rain shadow region.

**Cyclonic rainfall:** In a cyclone the air blows spirally inwards. In the tropical cyclones the air rises upwards in circular movement. So condensation takes place to cause heavy rainfall. The temperate cyclonic rain is also called frontal rain. When the warm air mass and the cold air mass meet, the warm air being lighter is forced to rise over the heavier cold air. The warm air after rising, cools and condenses, resulting in rainfall.

**Distribution:** The distribution of rainfall on the Earth depends on location and the climatic condition of that region. The most important heavy rainfall areas in the world are the equatorial region, the eastern margins of sub-tropical belts, the western margins between  $40^{\circ}$  and  $60^{\circ}$  N and S latitudes. Scanty rainfall regions are the polar areas, the western margins of sub-tropical regions and the tropical and temperate deserts.

### **Do you know?**

1. **Mawsynram** of Meghalaya in India has recorded 1140 cm of rainfall per year. It is considered as the wettest or rainiest region on the Earth.
2. **Agumbe** of Karnataka is called 'Mawsynram of South India'.
3. **Royli** of Rajasthan in India receives lowest rainfall : 8 cm per year
4. **Nayakanahatti** of Chitradurga is considered the driest place in Karnataka.
5. **Atacama** desert of Chile is the driest region on the Earth. It has not received rainfall for the last 200 years.

## **Weather and Climate**

The atmospheric conditions of a smaller area at a particular time is called weather. For example cloudy, sunny, fine weather, etc. The scientific study of weather is called 'Meteorology'. Climate is the average condition of the atmosphere over a long period of time of a larger area e.g., Equatorial climate, Tropical monsoon climate, Desert climate, Mediterranean climate, Tundra climate etc. The scientific study of climate is called 'Climatology'.

**Factors affecting the climate of a place:** The factors that influence the climate of a place or region are Latitude, altitude, winds, distance from the sea, distribution of land and water bodies, ocean currents, etc.

### **Exercises**

#### **I Fill in the blanks with suitable words :**

1. The two major gases of the atmosphere are \_\_\_\_\_ and \_\_\_\_\_.
2. The lowest layer of the atmosphere is \_\_\_\_\_.
3. The average air pressure of the atmosphere at the sea level is \_\_\_\_\_.
4. Westerlies is also known as \_\_\_\_\_.
5. The scientific study of weather is \_\_\_\_\_.

**II Answer the following questions :**

6. What is atmosphere ?
7. Name the important layers of the atmosphere.
8. What is the significance of ozone layer?
9. What is Doldrum? Where is it found?
10. Name the different types of planetary winds.
11. What are local winds? Give any two examples.
12. Mention the different types of clouds.
13. Distinguish between weather and climate.

**III Define the following :**

- |                       |                         |
|-----------------------|-------------------------|
| 14. ionosphere        | 17. horse latitudes     |
| 15. normal lapse rate | 18. orographic rainfall |
| 16. torrid zone       | 19. climatology         |

**IV Terms to remember :**

- |                              |                     |
|------------------------------|---------------------|
| 20. insolation               | 23. roaring forties |
| 21. inversion of temperature | 24. nimbus          |
| 22. anemometer               | 25. meteorology     |

**V Activities :**

26. Draw the picture of planatary winds.
27. Draw a diagram showing different temperature zones on the basis of latitudes.

\* \* \*

# CHAPTER-24

## HYDROSPHERE



**After studying this chapter you learn :**

- know the different kinds of water bodies.
- understand the structure of the ocean bed.
- know the ocean currents, their types and conservation of oceans.
- know how to mark oceans, gulf, bay and strait on Indian map.

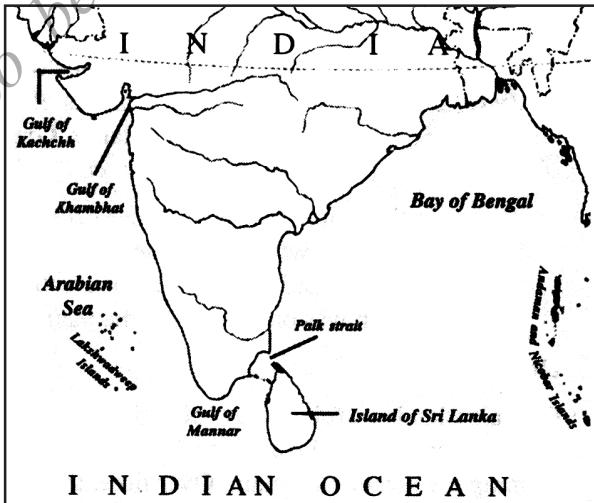
*Water- The source for marine life and maritime climate*

### Distribution of Water bodies

The Earth is popularly called 'Blue planet' or 'Watery planet' because about 71% of the total area of the earth or 361 million sq. km is covered by water. The major water bodies of the world are the Pacific ocean, the Atlantic ocean, the Indian ocean and the Arctic ocean.

**Oceans:** Oceans are deep and large expanse of water found between the continents. The Indian ocean between Asia, Africa and Australia. The Atlantic ocean between North America and Europe and so on.

**Sea:** A sea is a part of the ocean extended or projected far inland. Seas are smaller compared to oceans, e.g., the Arabian sea, the Caspian sea, the Red sea.



**Gulf:** Gulf is a part of an ocean or sea that penetrated into the land. It is smaller than a sea. The size, shape and depth of a gulf varies from one to another, e.g., the Gulf of Mannar, the Persian Gulf, the Gulf of Mexico.

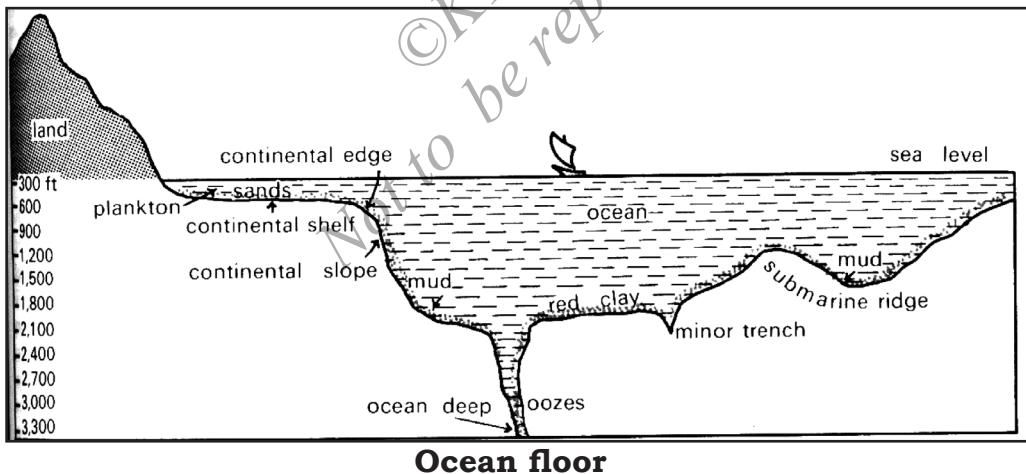
**Bay:** Bays are small semi-circular water bodies partially surrounded by land. The depth, extent and size of bays vary from one to another, e.g. the Bay of Bengal, the Bay of Biscay, the Bay of Fundy, Hudson Bay.

**Strait:** A strait is a narrow strip of water body joining two large water bodies, eg., Palk strait, Strait of Gibralter, Bering strait.

**Isthmus:** Isthmus is a narrow stretch of land mass joining two large land masses. Isthmus is the most important location for constructing ocean canals eg., a) Suez canal between the Mediterranean sea and the Red sea b) Panama canal between the Atlantic ocean and the Pacific ocean.

### RELIEF OF THE OCEAN FLOOR

The sea or ocean floor also has various features like the relief features of the earth's surface. The knowledge of relief features of the ocean floor is very necessary to know the importance of ocean. On the basis of the characteristic features, the ocean floor is divided into four major parts. They are : a) The continental shelf b) The continental slope c) The deep sea plain d) The ocean deeps



**Ocean floor**

**1. Continental Slope :** This is the shallow area along the sea coast. This part is bordered by the sea coast on one side and continental slope on the other side. The average depth of the continental shelf is 100 fathoms (1 fathom is equal to 6 ft). The depth of the sea in this region gradually increase towards the continental slope. The continental shelf is very important for fishing, aquaculture, navigation and extraction of minerals.

**2. Continental slope:** This is the second part of the ocean floor and it is very steep. It is a link between the continental shelf and the deep sea plain. Sub-marine canyons are a special feature in this region.

**3. The Deep sea plain:** This is the vast plain found at the bottom of the sea floor. The deep sea plain is also known as ‘abyssal plain’ and it covers the largest area of the ocean floor. In this region Sea mounts and Guyots are found.

**4. The Ocean deep:** The ocean deeps are also called ‘Ocean trenches’. These are the deepest part of the ocean floor, e.g. The Challenger deep of Mariana trench in the Pacific ocean near Philippine islands is around 11,033 meters deep and is the deepest point of the oceans. The other trenches are Tonga trench, Kurile trench in the Pacific ocean.

### **Temperature and salinity of the ocean water**

**Temperature:** Sea or ocean water temperature varies according to latitudes and the depth of the ocean floor. The temperature of the ocean water near the equator is more than that of the temperature near the Arctic and the Antarctic circles. With the increasing depth the temperature of the ocean water decreases. It is because the sunlight can penetrate into the ocean only up to a depth of 200 meters. Within this depth various marine organisms are found in large numbers.

**Salinity:** Salinity is the percentage of salts dissolved in the sea or ocean water. The average salinity of the ocean water is 35 PPT (Parts per thousand) or 35 grams/<sup>1000</sup> grams). The salinity of ocean water is very high near the tropics and it is very low near the poles. At the equatorial region the salinity is average due to high evaporation and precipitation.

#### **Why is sea water salty?**

*The water flowing from the land to the sea (river) carries many kinds of salts and deposits them in the sea or ocean. Due to high temperature, water is evaporated continuously and the salts remain in the sea or ocean. This continuous process over a long period of time has resulted in the accumulation of salts in the sea water.*

#### **Facts file**

#### **Saline water bodies of the world**

- |                              |                    |
|------------------------------|--------------------|
| 1. Lake Van (Turkey)         | - $330/^{000}$ ppt |
| 2. Dead Sea (Asia)           | - $300/^{000}$ ppt |
| 3. Lake Sambar (India)       | - $265/^{000}$ ppt |
| 4. Red Sea (Asia and Africa) | - $240/^{000}$ ppt |

## OCEAN CURRENTS

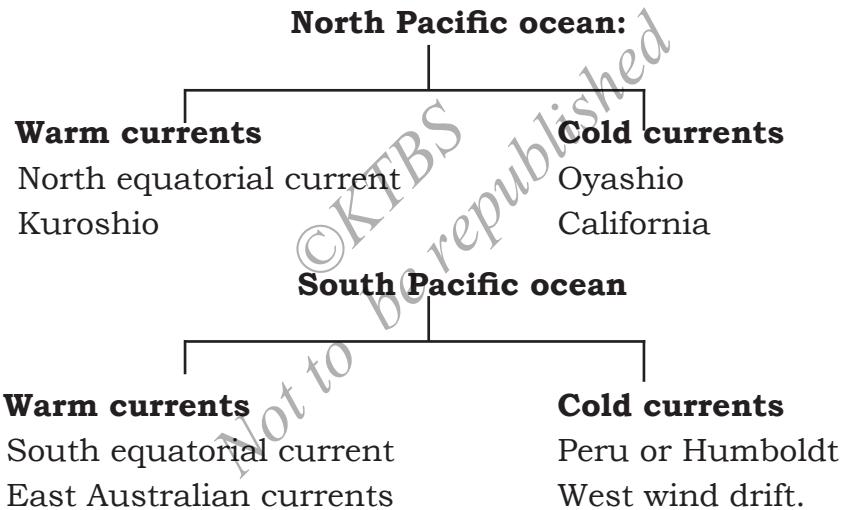
The ocean water has three types of movements. They are Waves, Currents and Tides. Ocean currents are the regular movement of ocean water from one region to another. Ocean currents are of two types.

**Warm currents:** These currents originate and flow from the equatorial regions to sub-polar regions.

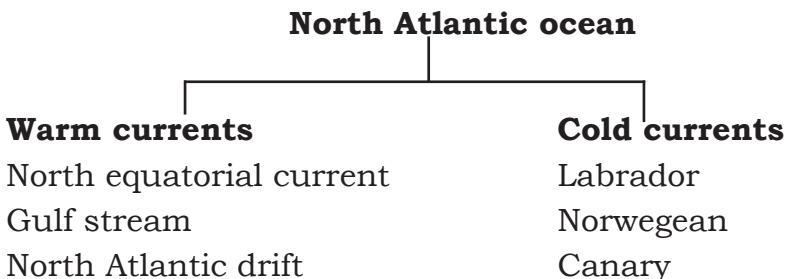
**Cold currents:** These currents originate in the polar regions and flow towards the equatorial region.

Factors that influence ocean currents are Rotation of the Earth, Temperature, Wind, Salinity, Shape of the landmasses, etc.

**Currents of the Pacific Ocean are:**



**Currents of the Atlantic ocean are:**



## South Atlantic ocean

### **Warm currents**

South equatorial current  
Brazilian current

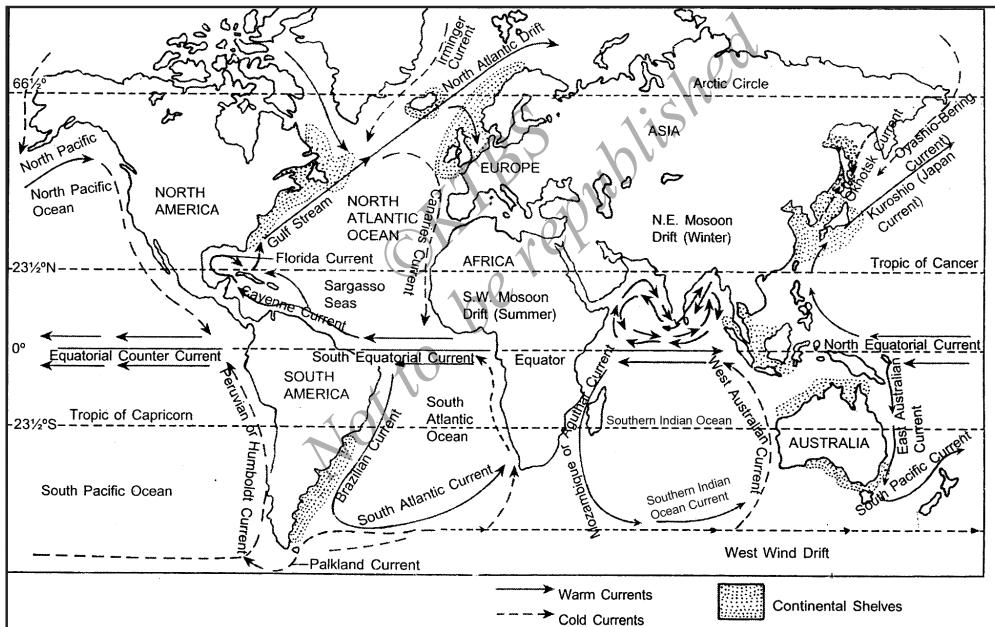
### **Cold currents**

Falkland  
Benguela

### **Current of the Indian ocean:**

The north Indian ocean currents change their direction seasonally following the monsoons. During the south west monsoon the currents flow in a south west to north east direction and during the north east monsoon they flow in a north east to south west direction.

The south Indian ocean currents are Mozambique, Madagascar, Agulhas as warm currents and West Australian as cold current.



### **Major ocean currents of the world**

#### **Facts file : Major fishing grounds**

- 1) Honshu Hokkaido fishing grounds – meeting place of Kuroshio warm current and Oyashio cold currents(Japan).
2. Grand bank – meeting place of Gulf stream warm current and Labrador cold currents (New Foundland USA).
- 3) Dogger bank – North sea region of Europe.

## TIDES: types, causes and uses:

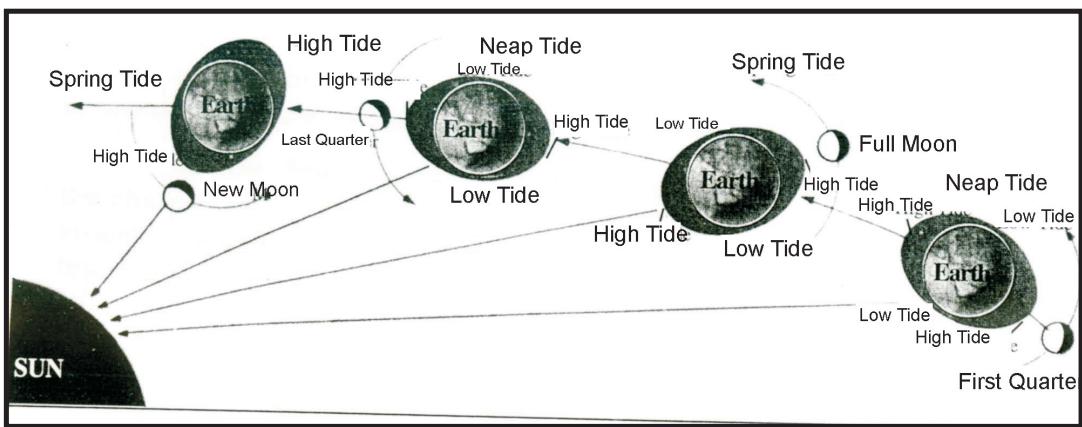
Tides are the periodic rise and fall in the sea or ocean level. They occur due to, gravitational attraction by the moon, gravitational force by the sun, rotation of the earth and, centrifugal force of the earth.

**Types:** Tides are of two types. High tide, also known as Flood tide and Low tide, also known as Ebb tide. On the water bodies of the earth there are alternate high tides and low tides. Between one high tide and a low tide the time is 6 hrs, 13 minutes. Between one high tide and another, the timegap is 12 hrs, 26 minutes. In 24 hrs, 52 minutes there are 2 high tides and 2 low tides.

There are two types of tides on the basis of the positions of the Moon and the Sun.

**Spring tide:** Spring tides take place when the earth, the moon and the sun are in the same straight line, eg., New moon and Full moon. When the spring tides take place, high tides are the highest and low tides are the lowest.

**Neap Tide:** Neap tides occur on the first quarter and last quarter days in the phase of the Moon. During neap tides the sun and the earth are in the same straight line and moon is in right angle to the earth. In this type of tides, the high tides are not very high and low tides are not very low.



**Spring Tides and Neap Tides**

**Uses :** Tides are directly and indirectly useful to mankind in following ways.

1. It helps navigation.
2. Helps in the location of ports and harbours.
3. Tides help to keep the harbours clean.
4. They help fishing.
5. They also help to generate energy in the form of tidal energy.

**Conservation of Oceans:** Conservation of oceans is very important. Oceans help us in many ways and they are the habitat of millions of marine organisms. Considering the rate at which the oceans are being contaminated, they may not remain what they should be in the future.

The following are the important methods of conservation of oceans.

1. Oil transportation should be done through pipelines.
2. Nuclear waste should not be dumped into the sea or ocean.
3. Petro-chemical industries in the coastal regions must avoid dumping effluents into the sea or ocean.
4. Dumping of any waste near the ports and harbours must be controlled.
5. Ore deposition and mineral exploitation along the coast must be controlled.
6. Exploitation and destruction of beaches must be controlled.

### EXERCISES

**I Fill in the blanks with suitable words :**

1. The average depth of the continental shelf is \_\_\_\_\_.
2. One fathom is equal to \_\_\_\_\_ ft.
3. The deepest place in the Pacific ocean is \_\_\_\_\_.
4. The average salinity of the ocean water is \_\_\_\_\_.
5. \_\_\_\_\_ tides occur during full moon.

**II Answer the following questions :**

6. What is hydrosphere?
7. Mention the four major parts of the ocean floor.
8. State the difference between ocean currents and tides.
9. Distinguish between spring tide and neap tide.
10. How can we conserve the oceans?

**III Match the following :****A**

11. fathom
12. oyashio
13. gulf stream
14. sea mounts
15. agulhas current

**B**

- a) deep sea plain
- b) eastern coast of USA
- c) cold current
- d) Indian ocean current
- e) depth of ocean

**IV Define the following :**

16. continental shelf
17. salinity
18. warm and Cold currents
19. high tide and Low tide
20. benguela current
21. tides

**V Terms to remember :**

22. gulf stream
23. salinity
24. warm currents
25. kuroshio current
26. flood tides
27. tidal energy

**VI Activity :**

28. List out the cold and warm currents in Atlantic ocean.

\*\*\*

# **CHAPTER – 25**

## **BIOSPHERE**



**After studying this chapter you learn :**

- The meaning of biosphere and its Importance.
- About the meaning of environment, environmental pollution, types of pollution and preventive measures.

Do you know, what the Earth has given to us? But what are we giving back to the earth ?

**Meaning :** Earth is the only planet which has various forms of life on it. Biosphere is the part of the earth where life exists. The biosphere is the fourth component of the earth and it is the totality of all living things on earth.

**Ecology:** Ecology is the study of the interaction of living organisms with their physical, chemical and biological environment. In a natural environment, there is a perfect balance between the various organisms living together in the biosphere. This is known as ecological balance.

Ecosystem is a community of plants and animals, together with their immediate environment, including the inanimate part of that environment. It is also defined as 'the total assemblage of components entering into the interactions of a group of organisms'.

Without ecosystem or ecological balance in the biosphere one cannot imagine the existence of plants, animals and micro organisms either single or in community. Every organism adjusts itself with its physical habitat.

**Environment:** Environment is the surrounding where an organism, a community or an object exists. It creates favourable conditions for the existence and development of all living organisms. The environment is of two types- Natural or geographical and Cultural or man-made.

**Environmental pollution:** Environmental pollution is the unfavourable alteration of our surrounding, wholly or partly by human action through direct and indirect effects.

Environmental pollution is one of the most terrifying ecological crisis of today. The factors like over population, industrialization, urbanization, over exploitation of resources, over utilization of automobiles, etc. have influenced a change in the living conditions of plants, animals and human beings.

Pollutants are the substances that cause pollution. Pollutants are natural and man-made. The man-made pollutants are considered to be more dangerous and hazardous than natural pollutants. The pollutants may be visible like smoke, gases, dust, garbage, sewage, etc., and invisible like bacteria, toxic chemicals mixed with water, food, soil, etc.

**Types of Pollution:** Environmental pollution are of different types. On the basis of pollutants and medium of pollution they can be classified into the following types: Air pollution, Water pollution, Soil pollution and Noise pollution.

### **1. Air pollution**

According to World Health Organisation (W.H.O.), air pollution is defined as, 'Substances put into the air by the activity of mankind in concentration, sufficient to cause harmful effects to his health, vegetation and property'. The important sources of air pollutants are, **Natural:** Volcanoes, forest fire, cosmic dust, etc. **Man-made:** Gases from industries, domestic use, automobiles, mining, nuclear power plants, nuclear explosions, etc.

**The important pollutants are :** Carbon dioxide, carbon monoxide, sulphur dioxide, nitrogen oxides, chlorofluorocarbons (CFC), hydrocarbons etc. The important effects are change in weather and climatic conditions, ozone depletion, greenhouse effect, global warming, effect on human health, problem with respiratory system, effect on life of animals and plants.

**Measures to control air pollution are :** Control of gaseous pollutants, control of emission from automobiles, planting of more trees, use of non-conventional energy sources, awareness programme, legal control, literacy and education etc.

## **2. Water pollution**

Water pollution is ‘alteration in physical, chemical and biological characteristics of water which may have harmful effects on human and aquatic life’. The important sources of water pollution are **Natural:** Soil erosion, landslides, volcanic eruption, decay and decomposition of plants and animals etc. **Man-made:** Industrial effluents, urban waste, domestic waste, agricultural waste, thermal waste, oil spill, offshore drilling, nuclear waste etc. Water pollution is of different types: Sea or Ocean water pollution, Ground water pollution, River water pollution, Lake pollution etc.

**The important effects of water pollution are:** It spreads water-borne diseases and epidemics like cholera, typhoid, diarrhea, jaundice, etc, Causes death of aquatic life, affects irrigation water and on agricultural crops, nature and features of water etc.

**Measures to control water pollution:** Industrial effluents must be treated; drinking water sources must be kept clean; sewage treatment plants, disposal of waste on the water bodies must be controlled, etc.

## **3. Soil pollution**

Soil pollution is ‘decrease in the quality of soils either due to human sources or natural sources or by both’. It results in the increase of soil erosion, lack of humus, decrease in soil micro-organisms, plant nutrients etc. Sources of soil pollution are, industrial and mining waste, Domestic and urban waste, agricultural waste, nuclear waste etc.

**Effects of soil pollution are:** it decreases the fertility of the soil, converts the region into wasteland, destroys the micro organisms in the soil etc.

**Measures to control soil pollution:** Controlled and judicious use of chemical fertilizers, pesticides and insecticides, proper disposal of industrial and urban waste, proper use of land and crop management, awareness programme on proper soil utilization and its maintenance etc.

## **4. Noise pollution**

Noise pollution is ‘any undesirable sound dumped into the atmosphere leading to health hazards’. The important sources of noise

pollution are **Natural**: Thunder, cyclones, heavy rainfall, hailstorms, waterfalls, ocean waves etc. **Man-made**: Industrial noise, automobiles, air crafts, domestic noise, mining etc.

**Effects of noise pollution are:** noise pollution causes temporary or permanent hearing problem, headaches, restlessness, cardiovascular diseases, Psychological disorder, behavioural changes, lack of concentration, etc.

**Measures to control noise pollution:** Industries must be located away from the residential areas; construction of sound proof walls in the factories, restricting unnecessary use of sirens, horns and loud speakers; airports must be located away from the residential zones; protective instruments the workers in the industries, noise producing vehicles must be checked etc.

**Global warming :** The temperature of the earth is increasing slowly over the years. For the last few years global temperature has increased. This phenomenon is termed as Global warming. The warming of atmosphere is caused by greenhouse effect and trapping of heat by the atmosphere. The world getting warmer, climatic zones are shifting, glaciers are melting and sea level is rising due to global warming eg., high rate of melting of ice in Himalayas, Arctic and Antarctic regions.

**Greenhouse effect :** The energy that the earth receives from the sun has to be balanced by the radiation emitted from the earth's surface. The use of fossil fuels is increasing greenhouse gases in the atmosphere. Carbon dioxide and other greenhouse gases trap the heat radiated from the earth. Thus increasing of greenhouse gases is causing an increase of temperature. This is called 'Greenhouse effect'.

**Ozone depletion :** Ozone is a thin layer of gas found in stratosphere. Ozone absorbs ultraviolet rays and protects all forms of life on the earth's surface. In recent years the use of air conditioners, refrigerators, sprays and deodorants are destroying the ozone due to the synthetic chemicals released into the atmosphere, primarily 'chlorofluorocarbons' (CFC). The highest ozone depletion in the world is recorded in the atmosphere over Antarctica. The ozone depletion has caused the ozone hole. This has to be controlled for the sake of the people of the present and future generation.

**Acid rain :** Acid rain contains high amounts of acids particularly

sulphuric acid and carbon monoxide. It is caused when the rain drops pass through the polluted atmosphere. The rainfall with poisonous acids kill marine organisms. Acid rain is damaging forests, agricultural crops, old buildings, monuments etc.

Acid rain is also referred to as 'lake killer'. The 'Black Triangle' stretching over Poland, Czech Republic and South-east Germany is one of the worst acid rain affected regions in the world.

**Bio-Diversity** : The variety of flora (plants) and fauna (animals) in a region is known as biodiversity. Distribution of different kinds of plant and animal species in a region shows the richness of biodiversity. The maintenance of biodiversity is very important both for the quality of environment and also for human survival.

The conservation of 'Biodiversity' is very important to save and protect rare plants and animal species. Providing good environmental condition for their living is the best means of protection.

The earth is the only living planet in our solar system. The way in which changes, disturbances, hazards are taking place on the earth, can lead to the destruction of the quality of life on our earth in the near future.

To 'Save Earth' and 'Mother Planet' we must educate people, formulate awareness programmes, utilize resources judiciously, control pollution awareness through education, symposiums, seminars, skits, films, summits. These necessary to save our "MOTHER EARTH".



**"Save Earth", "Save Mother Planet"**

## **EXERCISES**

### **I Answer the following questions :**

1. What is Biosphere?
2. Define ecology.
3. Name the different types of environmental pollution.
4. What are the measures to control water pollution?
5. What is Bio-diversity ?

### **II Define the following :**

6. Biosphere
7. Ecological imbalance
8. Global warming
9. Greenhouse effect
10. Ozone depletion
11. Acid rain

### **III Terms to remember :**

12. Pollution
13. Environmental Day
14. Climate change
15. Chlorofluorocarbons (CFC)
16. Earth Hour and Earth Day
17. 'Save Earth'

### **IV Activity :**

18. Collect information on the impact of global warming. Also enlist the ways of controlling global warming.

\* \* \*

# **ECONOMICS**

## **CHAPTER-26**

### **MEANING AND IMPORTANCE**

### **OF ECONOMICS**



**After studying this chapter you learn :**

- Know the importance of consumers, sellers, producers, service providers in economics.
- Know the importance of studying economics.
- Be able to define-economic activities, production and factors of production.

#### **Meaning of Economics**

Everyday we make use of a variety of goods and services, and thereby, satisfy our needs. We eat food, wear clothes, and use different kinds of goods like pens, pencils, bicycles, T.V. and mobiles. We make use of services of teachers to learn to read and write, and the services of doctors when we are ill. In the same manner, everybody around us makes use of goods and services. Such people are called Consumers.

The goods that we use are not available to us free of cost. We have to pay money for them. The people who obtain the goods from the producers and sell them to the consumers, are called Sellers.

Farmers grow food grains, fruits and vegetables. The cobbler make shoes for us. A goldsmith prepares gold ornaments. A tailor stitches clothes for us. Owners of factories manufacture a variety of goods. All these people are called Producers.

Many agricultural workers work in the fields. Many people work in hotels, business and commercial centres, information and technology companies and various other organisations for wages. These people are called Labourers.

We make use of buses, trains, boats, ships and aeroplanes to transport people and goods from one place to another. The electric

company supplies electricity to everyone. The telephone company provides telephone, mobile and internet services. They have to be given money for such services. The people who provide such services are called Service Providers.

Observe the situations given above. Consumers pay money and buy the goods and services they need. Sellers, producers, labourers and service providers engage in profitable businesses. Thus, all the activities that man engages in to earn money and to utilize money are called economic activities. Economics is a subject which studies the daily economic activities of man.

Indians, from ancient times, have given importance to the study of man's economic activities. Detailed information is available in the Manusmruti about farming, industry, tax, revenue and other economic issues. Kautilya, who lived during the Mauryan period, wrote a book called Arthashastra. This gives detailed explanation of not only political administration but also financial management and general economic system.

*The word '**Economics**' originates from the two Greek root words **okos** and **nomos**. **Okos** means 'a house' and **nomos** means 'management'. Thus the word '**Economics**' means making good use of the resources in order to bring happiness and satisfaction to all the members of the family. Over the years, the scope of Economics has widened to national and international levels.*

The subject matter of Economics has been changing from time to time. The Father of Economics, **Adam Smith**, who lived in the 18th century, has said, "Economics is the study of Wealth."

### **The Importance of the Study of Economics**

There is a financial aspect influencing most of the activities of man. Economics helps us in many ways in our lives. Every citizen should have knowledge of economics. The points mentioned below bring out the importance of the study of economics:

- Economics helps us to understand poverty, unemployment, economic inequality and other related problems that we get to see around us, and to find solutions for those problems.

- When we attempt to satisfy our unlimited wants through our limited income, problems of choice crop up. Economics enables us to find solutions in such situations.
- When producers want to create goods and services, they are faced with questions like – what to produce? How to produce? Whom to produce for? At what price to produce? Knowledge of economics guides them on such occasions.
- Economics identifies the reasons for the rise and fall of prices, and the results of such fluctuations. It provides ideas to bring stability in prices.
- Land, water, forests, minerals and other natural resources are limited in quantity. Economics suggests ways to make use of these limited resources with care and efficiency, and also pass them on to the next generation.

In this manner, Economics is very helpful in our daily lives. Thus, the study of Economics is not only enlightening but also profitable.

*Study of Economics is not only enlightening but also profitable.*

- A.C.Pigou

## **Economic Activities**

We have seen that human wants are unlimited. Goods and services have the capacity to satisfy our wants. This quality is called 'Utility'. For eg - We eat food when we feel hungry. Food has the power to satisfy our need. We want to drink water when thirsty. Water has the power to quench our thirst.

*Wants are the basis of all economic activities*

Many of the goods and services that we use everyday are in limited supply, and hence are not available free of cost. We have to pay money to get them. These goods and services are called economic goods and services. Then how do we get money? We will have to do some work in order to earn money. Man makes use of his skills and

labour to earn money, and satisfies his wants by utilizing that money. In order to earn money and wealth, and thereby to satisfy his wants, man engages himself in various activities. These activities are called economic activities.

The most important objective of economic activities is to satisfy human wants. In every society, economic activities are bound by certain rules and traditions. Man's economic activities can be classified into four different kinds:

**1. Production Activities :** Production activities are those that produce goods and services. For ex: Agriculture, Animal Husbandry, Fishing, Mining, Forest Development, different kinds of industries, Transport, Communication etc.

**2. Consumption Activities :** Goods and services are produced for consumption. Man satisfies his wants by buying goods and services. All these activities are known as consumption activities.

**3. Exchange Activities :** The producers produce goods for the consumers. There is a marketing system to supply the produced goods to the consumers. In this system, activities of collection of goods, transportation, selling and buying take place.

**4. Distribution Activities :** The income that is earned through the production of goods has to be distributed to the various factors of production that have enabled the production. This process involves activities undertaken to determine the price of the factors of production. Steps have to be taken to ensure that the income earned is distributed among all factors in a just manner.

Man is not engaged only in economic activities in his daily life. He engages himself in many activities like social, cultural, political, educational and religious activities too. Sometimes many activities which are not economic in nature become economic activities. For ex: when a teacher gives free tuitions at home to students, it is not an economic activity. When the same teacher charges fees for giving tuitions, it becomes an economic activity.

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

- 1 The word 'Economics' originates from the Greek root words \_\_\_\_\_ and \_\_\_\_\_.
- 2 Kautilya who was in the Mauryan court, wrote the book \_\_\_\_\_.
- 3 The quality of the goods and services which can satisfy man's wants is called \_\_\_\_\_.
- 4 The physical and intellectual work that is done in return for money is called \_\_\_\_\_.

### **II Answer the following in a sentence each :**

- 5 What is Economics?
- 6 Who is identified as the 'Father of Economics'?
- 7 What are Economic Activities?
- 8 A student buys a pen and writes with it. What kind of economic activity is this?

### **III Answer the following in three or four sentences each :**

- 9 What are man's economic activities?
- 10 Why do we need to study Economics?
- 11 How has the meaning of Economics changed from time to time?

### **IV Activities :**

- 12 List the economic activities the members of your family are engaged in.
- 13 Identify the various economic activities of the people around you or your village are engaged in.
- 14 List the goods that you consume everyday.
- 15 Observe how farmers decide to grow and how do they decide to grow.

\* \* \*

## CHAPTER-27

# BASIC CONCEPTS OF ECONOMICS



### **After studying this chapter you learn :**

- Learns about the fundamental concepts in Economics.
- Inter-Relationship between Demand, supply distribution, production etc.
- National Economic development.
- Importance of labour and dignity of Labour.

In order to understand economics easily it is necessary to have the knowledge of some technical terms widely used in the subject. Do these terms are very commonly used in our daily life, in economics they have definite meaning and scope. Hence it is necessary to know some selected concepts in brief.

**Demand** : Demand is not only a want, in addition to want if there is an attitude to buy and ability to spend money, then only it becomes demand. Demand is the quantity of economic goods that can be brought at a fixed price at a given time. Generally when the price increases, the demand for it decreases.

Demand has a great influence in the field of production. When there is an increasing demand, generally production, employment , income and supply increases. The standard of living of the people improves. The nation continues to move in the progressive direction. When the demand decreases generally production, income and supply also decreases. The standard of living of the people decreases. the national progress also decreases. It is for this reason that demand is considered as the index of the Nation's progress.

**Supply** : Supply is the quantity of goods and services readily available for sale in market at a given price. Generally if the price of the goods and services increases; the flow of quantity of goods and services to the market also increases. The standard of living improves.

The Nation moves in the direction of progress. If the price of the goods decreases, the flow of quantity of goods and services to the market for sale also decreases. the production and income also decrease and the unemployment increases and the standard of living decrease. The progress of the Nation also decreases but in some situations this law does not operate and whatever may be the price the supply remains the same.

Demand and supply are interdependent. The change that takes place in one, will influence the other immediately and this is indicated by the price of goods.

**Example :** When the demand is less, supply is also less and the price decreases, when the demand increases, supply also increases and the price also increase. in short, it can be said that the demand and supply are the two pillars of the economic activities of man.

**Production :** The world production has a broad meaning in economics. Production includes production of goods and services. though production appears to be the creation of wealth, man cannot create anything new. It is possible for him to increase the utility of the natural wealth available. Hence, we must know that production means only to create special utility. The goods thus produced must also have value.

The production function includes activities such as transport, trade and distribution. The function of production completes only when the goods and services reach the consumer. Many factors like natural wealth, labour, capital and organisation are essential for production. Economists have called these factors as factors of production. Production is possible only when there is proper co-ordination among these four factors. It is only for the welfare of the consumers that crores of people are involved in different ways in different capacities in the process of production.

**Distribution :** Distribution is a very important economic activity. The important function of distribution is to distribute the goods produced involving the interaction of the factors of production. The national income distributed among land, labour, capital and organisation are called rent, wages , interest and profit respectively.

This distribution takes place in the rate of the role played by each factor of production. It should balance the demand and supply without bringing an obstacle to production. Special importance should not be given to any factors of production nor should any of them be neglected. This is necessary to maintain equilibrium in the entire economic system. Distribution is influenced by many factors such as production, demand, supply, consumption, price fixation, etc.

**Consumption :** The use of goods and services to satisfy wants is called consumption. The goods and services that are consumed may be good or bad but as long as they satisfy wants they will be consumed. In modern economics a lot of importance is given to consumption.

There are two types of consumption

1. Goods and services used for production.
2. Finished goods used to satisfy wants.

Generally consumption means satisfaction of wants.

The prosperity of the Nation, the standard of living and employment ratio depend upon the quantity of consumption of the respective Nation. This is because the economic organisation is there to satisfy human wants and it ends only after consumption. In order to consume there must be production and distribution. Production takes place to satisfy wants. When consumption increases production and income also increases creating markets for the goods produced and providing full employment opportunities. When consumption decreases-production, income and value decreases and this creates unemployment. So consumption and production have a close relationship between them. Both of them combined together have a significant influence on the National income.

**Utility :** Utility is also one of the key terms among the various terms widely used in economics, utility is the power of satisfying wants. It includes all goods and services which satisfy human wants directly or indirectly. But it cannot be measured. This varies from person to person. Also for the same person it varies from time to time and place to place. Attitudes and seasons may also influence utility.

Utility is not satisfaction, but it is the power of giving satisfaction. Satisfaction is the effect of utility. This means that the goods and services which have utility gives satisfaction to us. Utility has no relationship with usage. Generally both these terms are used in the same sense they do not mean the same. For example taking alcohol has no use but it has utility.

Economists have classified utility as

1. Principle utility
2. Form utility
3. Time utility and
4. Place utility

All things that can be used in original form are said to have principal utility example water, fruit, egg etc.

Things that are used by giving a definite shape or form to it have form utility.

Example: giving the shape of an ideal to the stone by the sculptor, giving the shape of a chair or table to wood by the carpenter, etc.

Things that are stored when they are abundantly available and used when they are not available, their value increases and then they are said to process utilitarian value. This is called time utility.

Example : Preparation of mango pickles and used when mangoes are not available by preserving mangoes when they are available.

Things that are available in abundance at one place will have more utility and value when they are transported to their place where they are not available this is called place utility.

Example : The apples grown abundantly in Shimla or the oranges grown in Kodagu. Find more value and utility when they are transported to a place where they are not grown.

**Price :** The value that is expressed in the form of money is called price. The money that is to be paid in lieu of goods or services is called price. When there is great demand for goods and services it is

difficult to distribute them among large number of people. Price plays an important role here. The main function of price is to equate the demand and supply. When the demand and supply for equator at the price will remain stable. At this stage there is neither deficit or surplus of goods and services, but when there is a difference between demand and supply, price also varies. But in course of time another price is fixed at two equal the demand and supply again. In this way demand and supply play an important role in fixing the price.

**Profit :** Generally speaking the amount that remains after deducting the expenditure from the income of the production is called profit.

According to economics the reward that the producer gets for the services rendered for production is called profit. This is the amount that remains after giving rent, wages and interest, which help in the process of production. The amount that remains may be less or more. Sometimes it may not remain at all. The degree of efficiency of production is responsible for the profit or less of production.

In the field of economics profit finds great importance, profit is the main source of all the economic activities. As profit increases economic activity also increases and National progress takes place rapidly. As profit decreases economic activity decreases and national progress deteriorates. This creates an economic crisis.

**Co-operation :** Corporation has a prominent position in economics. Though, this is a type of factory organisation this is considered a way of life. Co-operation is the light which enkindles the neglected, non influential people of limited accomplishments. The system of co-operation has shown that co-operative effort helps the common man to get benefits which otherwise reserved only for the rich and influential. This is free from exploitation.

Co-operation is an extraordinary system where people desire to come together to work on the basis of equality to protect their economic interest. The main aim of this is to achieve progress by self help. There is no scope for competition here. Here all activities are managed by the members, profit is shared, suitable discount in price is given on goods bought by the members. There is no place for middle man here.

There is no scope for exploitation. The elected directors will look after the affairs of the institution. Here all are owners and all are workers.

“Each for all all and all for each” is the spirit of cooperation. Here each shareholder has one vote irrespective of number of shares that he holds. Besides, there is a limit to acquire the number of shares. Everyone finds equal opportunities there is no discrimination on the basis of caste, creed or religion. There is freedom to become a member at any time and to withdraw membership at any time.

**National Income:** Nation is also getting income as an individual this income is called the national income. It is the total income obtained in a year from all the sources of production. It is difficult to compute the national income. It is a big problem particularly in developing countries.

The volume of the national income depends upon production. If the production increases the national income also increases. The increase in the national income indicates the progress of the nation and the standard of living of the people. Increase in the national income is the symbol of economic development. Decrease in national income shows the economic backwardness of the nation and poor standard of living of the people. It is because of this reason every Nation tries to increase its national income.

**Per Capita Income:** If the national income is divided by the total population of the Nation we get the per capita income. If the national income is more the per capita income is also more (depending on the growth of population) and the standard of living of the people will be high as a result people lead a contented life.

If the national income decreases per capita income also decreases (accordingly with the growth of population) under standard of living will also be low. Poverty and diseases increased and people lead their life with difficulty. A comparison of the per capita income of different nations reveals the economic condition of a given Nation and economic progress of that country.

**Importance of Labour:** It is the innate quality of man to work hard to accomplish and to improve the standard of living. This effort might be physical or mental. Digging, Ploughing and Lifting or Carrying loads are some of the examples for physical labour. The work or services of a teacher, scientist, lawyer, technician, IT worker and clerk are some of the examples of mental labour. The physical labour requires physical strength, whereas mental labour requires intelligence.

In developing Nations the educated class will be more in number and they perform their work sincerely with concentration. Whether the task is physical or mental. There is dignity of labour. The society does not discriminate and both the class of workers receive equal respect.

Mahatma Gandhi had great trust in the dignity of labour. He showed this practically to him to speak with the national president is as important as to speak with the workers engaged in unclean occupations. There should not be any ill feeling of high or low in labour.

Many educated people search for the jobs which involve mental labour but there is not enough employment opportunities for all. Employment opportunities in physical labour are more. One has to give up the feeling of high and low and must prepare to take up the job that he gets. Then only he realises the importance of labour. A feeling of equality develops in them and the building of a Nation becomes easy.

## **EXERCISES**

### **I Answer the following :**

1. What is demand in economics?
2. What is the influence of demand in the field of production?
3. What is distribution?
4. How can distribution be done effectively?
5. Mention the differences between national income and per capita income?
6. What is the importance of labour?

### **II Fill in the blanks with suitable words :**

7. The production decreases when the demand \_\_\_\_\_
8. Goods and services used for the satisfaction of wants are \_\_\_\_\_
9. If the national income is divided by the nation's total population we get \_\_\_\_\_
10. Workers involved in carrying materials loading and unloading the cargo are called \_\_\_\_\_
11. Workers involved in teaching the students, belong to \_\_\_\_\_ workers.

### **III Activities :**

12. Visit a nearby market and observe how wants vary when the prices vary.
13. Read the News Papers and notice the daily variations in the economic field.

\* \* \*

# **CHAPTER-28**

## **BUSINESS STUDIES**

### **MEANING AND IMPORTANCE**



**After studying this chapter you learn :**

- Understand the objectives of business.
- Know the meaning and importance of home trade, foreign trade and entrepot trade different types of trade.
- Able to discuss the features of production and problem of cottage and small scale industries.
- Know about the business ethics.

Business is an important economic activity mainly concerned with production and distribution of goods and services to consumers. Business has two main objectives:

1 Economic objectives      2 Social objectives

**Economic objectives :** We are under the impression that earning profit is the main objective of business. But it is not so, the sole objective of business includes earning reasonable profit that is sufficient to enable the business to cover the costs and the business man to lead a normal comfortable life. Business supplies goods and services to the consumers and thus creates consumers. It uses the available resources to produce the goods that are sufficient to consumers. It produces such goods that are required according to changes that take place from time to time. It brings changes in production by adopting new techniques. It also enable the consumers to know about the changes in products through advertisement.

**Social objectives :** Business produces and supplies the goods that are required for the development of a nation. It provides employment to many and pays them fair wages and salaries and helps them to improve their standard of living. Business contributes its share the economic development of a nation by paying rates, taxes and duties. Business also contributes a fair share for the social welfare of the nation by starting and running of schools, colleges, hospitals, and also by maintaining public gardens etc.

## **Trade, Industry and Services**

Trade is a part of business. It is mainly concerned with buying and selling of goods to the consumers. Trade is divided into three types, they are, 1. Home Trade, 2. Foreign Trade and 3. Entrepot Trade.

**1. Home Trade :** Trade within the country is called home trade. It is carried through Retailers and Whole Salers.

**Retail Trade :** Retailers carry out their trade at places where consumers live. They buy goods from the whole salers and sell them to the consumers. They render various services to the consumers. Some of them are: they are the last connecting link in the distribution of goods. They supply variety of goods produced by different producers to the consumers. They store the goods to meet the demand of the consumers. They take the risk of loss in business or loss of goods. They grade the goods and supply according to the tastes of the consumers.

They provide credit facilities to the consumers, give more information about the newly available goods in the market and suggest alternative goods for the particular goods that are not available.



**Permanent Shops**

Retail trade is carried out in different ways. The important types are :

- a) Permanent shops
- b) Itinerant or mobile traders.

**Permanent shops** : They are opened at a fixed place and carry out trade.

**Itinerant or Mobile Traders** : They do not have a fixed place to carry on their trade. The important among them are Hawkers, Peddlers, Street vendors and Market vendors.



**Hawker**

**Hawkers** : They carry goods on their heads, move from “door to door” and sell their goods. They generally sell only one or two type of goods. e.g. - Vegetables, fruits, flowers etc.



**Peddler**

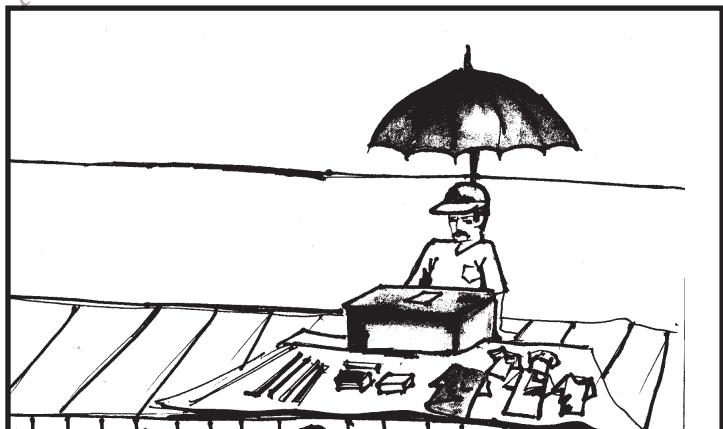
**Peddlers** : They carry their goods on wheeled carts and sell them to the consumers at their doors. They generally sell more than one type of goods.

**Street traders or  
Foot path traders :**

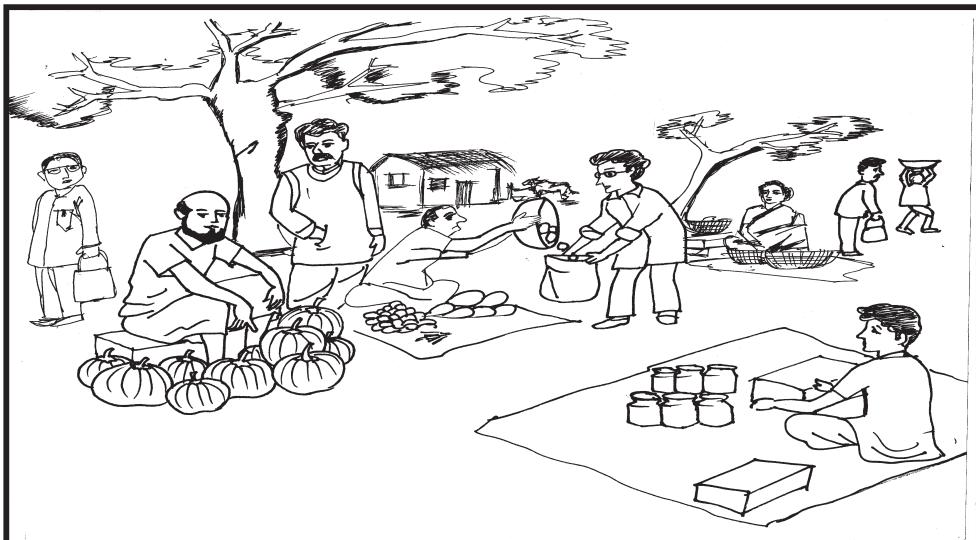
They display goods in busy street corners or on pavements and sell them to the consumers.

**Market sellers  
(shandy sellers) :**

Weekly markets take place at villages or towns once in a



**Foot path seller**



### **Market sellers (shandy sellers)**

week. Different traders take their goods to these markets and sell them to the consumers. Another speciality of these weekly markets is that the surrounding villagers bring the goods which they have grown or produced and sell them, eg. vegetables, eggs, butter, agricultural implements, blankets etc... With the money they get, they buy their requirements. At some places yearly fairs take place and here too the traders gather and sell the products to the consumers.

**Wholesale Trade :** Wholesale traders buy goods in large quantity from producers and sell them to the retailers in small quantities. Generally, they deal with one or two types of goods. They help the retailers in many ways such as supplying goods to the retailers in small quantities. Whenever required, they provide credit facility to the retailers. They advertise for goods on behalf of the retailers. They supply market trends to the retailers. They do not keep high margin of profit. They render some services to the producers such as market trends, and advertise on behalf of the producers. They also provide storage facility for goods.

**Foreign Trade :** The trade between two countries is called foreign trade. Foreign trade can be classified into three types. They are: Imports, Exports and Entrepot trade.

Imports refer to a country buying goods from other countries for its use.

Exports refer to a country selling its goods to other countries for their use.

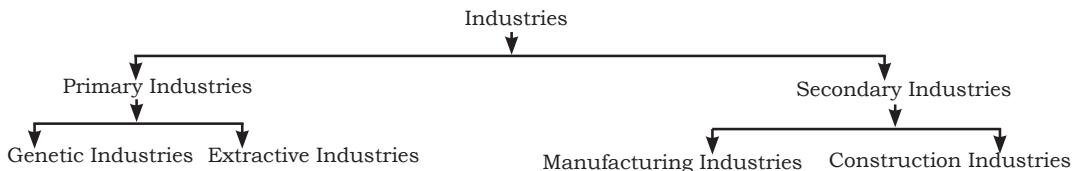
Entrepot Trade refers to buying of goods from one country with a view to sell it to other countries. Singapore and Middle East countries are the best examples for entrepot trade. Now a days many countries carry out entrepot trade.

**Need for foreign Trade :** No country in the world is self sufficient in all the natural resources. Some countries have plenty of natural resources. Using the available natural resources they produce more goods than they require and the excess is exported to other countries. In the same way some countries have deficit of some natural resources and depend on other countries for their requirement and import them. Thus there is a great need for foreign trade. The need for foreign trade is increasing day by day. It also helps to foster friendship among the countries.

## Industries

Industry is an economic activity. It is concerned with production of goods, extraction of minerals and also providing some services. Industries may be classified into two main types. They are : Primary Industries and Secondary Industries.

The following chart shows the further classification of Industries.



### Primary Industries

These industries produce goods by using the natural resources. e.g. - agriculture, fishing dairy farming, mining etc. These industries are further divided as : genetic industries and extractive industries.

**Genetic industries** : These industries are engaged in reproduction of different crops, plants and animals. They help to increase the wealth of a nation. e.g. - horticulture, dairy farming, poultry farming, etc.

**Extractive Industries** : They are engaged in extracting different raw materials and ores from the earth. (It is also called non-renewable industry) e.g. - Extraction of ores, drilling of oil wells etc.,

## **Secondary Industries**

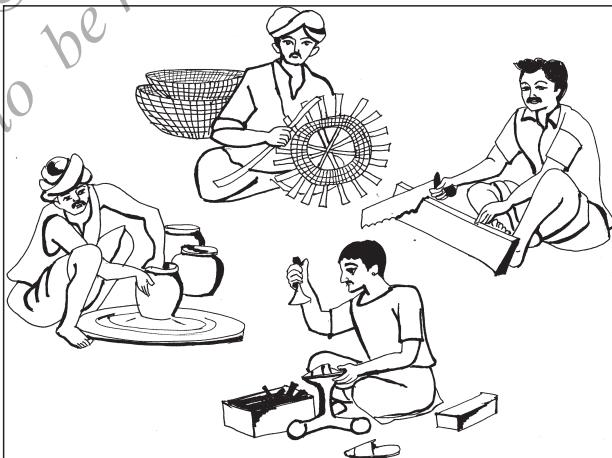
They are labour oriented industries. They are further divided into Manufacturing industries and Construction industries.

**Manufacturing Industries** : These industries are engaged in converting raw materials or semi finished products into finished products. They are mainly labour oriented and supply finished products to consumers, e.g. - Converting iron ore into steel, Sugar out of sugarcane etc.,

**Construction Industries** : They are engaged in construction of roads, canals, bridges etc. These industries help in the quick development of economic activities like - transport and communication etc.

## **Cottage and small scale Industries**

Cottage industries are also called household industries. They are carried out by craftsmen in their own houses with the help of family members or apprentices (persons who like to learn work). They are mainly concentrated in the villages and produce goods mainly for the local markets. Carpentry, smithy, carpet weaving, pottery, blanket making, stone carving etc. are some examples.



**Cottage Industries**

**Small scale industries** These are organized on a small scale in a

particular place (sheds). They use electric power and some machines. They employ labourers and adopt modern techniques. Chemical industry, manufacture of engineering goods, shoes, bicycles, fans, radios, sewing machine , soaps, garments are some examples for small scale industry. The goods are manufactured both for local and external market.

### **Services for smooth conduct of business.**

For the smooth conduct of business the auxilliaries to trade came into existence. They are also called aids to trade or services to trade. There are some hindrance to transport goods from the producers to the consumers. The important hindrances are hindrance of place, hindrance of risk of loss, hindrance of time, hindrance of finance, hindrances of knowledge etc. To over come these hindrances the following aids to trade have come into being.

**Hindrance of place- Transportation :** To over come the hindrance of place the services of transportation are used. Road transport, Railways, water transport and air transport are different media. These media help to reach the goods from producers to the traders and from traders to the consumers.

**Financial services – Banks :** In the distribution of goods from the producers to the consumers there is the hindrance or problem of finance. The supply of finance is required at all stages. Money is required to exchange media. These problems are solved by banks. Banks provide finance to the traders and serve to conduct the business smoothly.

**Hindrance of Loss - Insurance companies :** While moving goods from the producers to the consumers or while the goods are stored in warehouses, There is a problem of damage or destruction. To overcome this hindrance insurance facilities are available. The insurance companies help business by making goods the loss incurred by fire or water or that caused by natural calamities and thus help for the smooth conduct of business.

**Hindrance of Time - Storage :** The production of goods and their consumption take place at different times. To supply goods to consumers when ever they required them, they have to be stored. For

this purpose there are warehouses. These warehouses are scientifically constructed and many warehouses have cold storage facilities also.

**Hindrance of Knowledge- Advertisement :** While distributing goods to the consumers, the knowledge about the goods has to be given to the consumers. Even when new goods are introduced into the market knowledge about them is also required or knowledge about alternatives is also to be given to the consumers. For all these purposes advertising services are very useful.

### **Business Ethics**

We are under the impression that earning profit is the main objective of business. But it is not so, The objective should be to include reasonable profit and to enable the business to cover the cost. Trade and commerce are perhaps the older traditional occupations. Traders supply goods to the consumers. They supply essential commodities. They are supposed to keep marginal profit to cover the cost of business. By doing so ethical principles in the business are followed. But it is unfortunate that greed and profiteering have entered into business. To earn more profits, some anti social practices are followed, and some of them are-adulteration, charging excess or abnormal rates, using false weights and measures, creating artificial scarcity by hoarding the goods and carrying out black marketing etc. These are unethical business practices. By such acts people suffer untold miseries. Such unethical practices should be avoided. In our country the Government has introduced Public Distribution System to avoid such practices. (Supplying essential commodities through fair price shops). To maintain the standard of goods and essential commodities the government has opened an institution - Bureau of Indian standards. ISI and AGMARK marks are printed on goods and commodities to certify their quality etc... Every industrial product must have a seal on its cover pack, the quantity, the date of manufacture, date of expiry, Maximum retail price (MRP). It is a legal mandatory provision. Government has also opened Janatha bazaars, consumer co-operative societies etc. to supply essential commodities to the people. Despite these measures, business becomes public cheating, in the absence of business ethics.

It cannot be imposed forcefully. It should come from within. Every businessmen should inculcate the principle of public welfare in the goal of business.

## **EXERCISES**

### **I Fill in the blanks with appropriate words :**

- 1 The best example for Entrepot trade is \_\_\_\_\_.
- 2 Cottage industries are mainly concentrated in \_\_\_\_\_.
- 3 The manufacture of chemicals is carried out in \_\_\_\_\_ industries.
- 4 The sole objective of business should be earning \_\_\_\_\_ profit.
- 5 To safeguard the quality of goods \_\_\_\_\_ institution has been started.

### **II Answer each of the following questions in two to four sentences :**

- 6 Which are the different types of mobile shops ?
- 7 Who are wholesalers?
- 8 Name the three types of foreign trade.
- 9 Mention the important goods produced by cottage and small scale industries.
- 10 Which organizations overcome the hindrance of place and risk ?
- 11 Mention the antisocial activities of traders to earn more profit.
- 12 What are the steps taken by the government to overcome the anti-social practices in business ?

### **III Answer each of the following questions in eight to ten sentences :**

- 13 What are the economic objectives of business ?
- 14 What are the social objectives of business ?
- 15 Mention the services rendered by retail traders.
- 16 List out the different retail traders and write two/three sentences on each of them.
- 17 Explain briefly the two types of Industries.
- 18 What is the need of foreign trade to a country ?

### **IV Activity :**

19. Visit weekly market near your place and learn how buying and selling is carried on there.

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## CHAPTER-29

# EMERGENCE OF DIFFERENT BUSINESS ORGANISATIONS



**After studying this chapter you would :**

- Know the types of business organisations.
- Understand the features, advantages and disadvantages of partnership firms.
- Know about Hindu undivided family business concerns.
- Know the partnership registration procedure.

Today we see different forms of business organizations. They may be classified into four types. They are:

1. Business organizations in the private sector.
2. Business organizations in the public sector.
3. Joint sector business organizations.
4. Public utilities.

In this chapter and the next one we shall learn briefly about the small scale business organizations and large scale business organizations that come under Private sector. The small scale business organizations under private sector are mainly divided into three types. They are: Sole trading concerns, Partnership firms, and Hindu undivided family firms.

**Sole trading concerns :** It is run by a single person. He is the owner, and the manager. He enjoys all the profits and fully responsible for losses. He is the sole investor of capital to run the business.

**Features :** It is one of the oldest and simplest forms of business organizations. It is owned and managed by a single person. It is easy to start a business. These concerns are run by the sole traders for profits. The sole trader uses his own skill and responsible for all the losses. There are no legal constraints to close or to start the business concerns. He takes the help of his family members or appoints some workers to help him in business. Generally they are small in size. But now a days they run on large scales also.

**Advantages of Sole Trading concerns :** No legal formalities are required to commence the business. It can be started by own capital. No difficulties arise in day to day running of the business. The owner enjoys all the profits and bears all the losses. They directly come into contact with the consumers. They render some social services also. They provide employment to some people. They help in distribution of wealth. They understand the likes and dislikes of the customers and supply goods accordingly. They pay taxes to the government. They are in a position to take quick decisions regarding business. They maintain business secrets. The owner can implement his creative ideas in the business to the fullest extent.

**Disadvantages of Sole trading concerns :** Sole trading concerns are not free from some disadvantages. They are : Capital is limited and they cannot expand the business. Since it is run by a single person the managerial ability is limited, (two heads are always better to take decisions). All the losses are to be borne by a single person. With the death or insolvency of the sole trader, the trading concerns may have to be closed.

## PARTNERSHIP FIRMS

The limitations of the sole trading concerns lead to the formation of partnership firms. In these firms two or more persons join together and carry out the business. Partnership firms Act was passed in 1932. According to the section 4 of partnership act the partnership firm is defined as the relation between the persons who have agreed to share the profits of a business carried on by all or any of them acting for all. The maximum number of partners is Ten if they carry out the financial business then, twenty in case of carrying out general partnership business.

**Types of partners :** There are several types of partners, but generally we find: Active or working partners, Sleeping partners, Nominal partners and Minor partners.

**1) Active Partners :** They contribute fixed amount of capital, and share profits and losses in proportion to their capital contribution and take active part in carrying out the day-to-day affairs of the business.

**2) Sleeping Partners :** They contribute capital but do not take active part in day-to-day transactions of the firm. The profits and losses are shared in proportion to their share of the capital.

**3) Nominal Partners :** They neither contribute capital nor take active participation in day to day transactions of the firm. They are not entitled for any share in profit but they are liable for business losses.

**4) Minor Partners :** These partners are those who have not yet attained the age 18 years. A minor cannot become a partner. But by mutual agreement of all the partners a minor can be admitted as a partner. The minor partners are eligible for profits but not eligible for defaults or losses. When a new partnership is started the minor cannot be admitted.

In addition to these types there are secret partners, limited partners and partial partners. Partners eligible only for profits.

**Partnership deed :** There shall be a deed of partnership. Generally it is in writing, duly stamped and signed by all the partners. It differs from firm to firm. It contains all the terms and conditions of the firm. Generally it contains the name of the firm, names and addresses of partners, the addresses of the firm, nature of business, address of the branches if any, date of the commencement of business, shares of capital by each partner, the ratio of sharing profits and losses, duties of each partner, division of work among partners, the conditions to be followed at the time of admission of a new partner, calculation of goodwill in case of death or retirement of a partner, at the time of admission of a partner or at the time of closing the business, the procedure to be followed whenever differences arise among the partners.

### **Merits of Partnership Firms**

**1) Easy to form :** No legal formalities are required for the formation of partnership firms. Even the registration of partnership firm is not compulsory, therefore the partnership firms are started easily.

**2) More capital :** Partnerships are formed by more than two persons ,so the capital investment is more.

**3) Greater efficiency :** There are more than one person as partners. Division of labour can easily be adopted, so there is better managerial ability and it increases efficiency.

**4) Trust worthiness :** The liability of partners is unlimited so it leads to increase in trust worthiness.

**5) Sharing of business loss :** All the partners have to share the profits and losses. The loss is not borne by one but it is shared among all the partners.

**6) Secrecy of business :** The partnership firms need not publish their accounts. Thus there is a scope for maintaining secrets of business.

**7) Simple dissolution :** Partnership firms can be dissolved easily. Any partner can apply for dissolution by giving fourteen days notice or with the consent of all the partners it can be dissolved.

#### **Demerits of partnership firms :**

1. Sometimes the disunity among the partners may hamper business and it leads to disputes.
2. Since the number of partners is limited, the capital investment is also limited.
3. Liability is unlimited, so it discourages many people to join as partners.
4. Reckless and foolish decisions of some partners may lead to heavy setbacks
5. Partnership firms lack stability; the death or insolvency of any partner may lead to dissolution.
6. It is difficult to transfer the share of partners to others.
7. Owing to lack of control by the government and publishing of accounts, partnership firms can not gain public support.
8. The secrecy of the business can not be maintained since there are two or more than two partners.

## **Registration of partnership firms**

There is no provision for registration of sole trading concern. The Indian Partnership Act of 1932 provides for the registration of partnership firms. But it is not compulsory. It is left to the discretion of the partners. Registration can be made at any time. For the purpose of registration a statement in the prescribed form duly filled with correct particulars must be submitted to the registrar of firms, appointed by the government along with the prescribed fees. The Registrar checks, issues a certificate called "Certificate of Registration".

### **Advantages of Registration of firms.**

1. A Registered firm can file a suit in the court of law against third party. In case the loan amount is more than Rs. 100/-. But it is not possible in case of an unregistered firm.
2. A Registered firm can file a case against the other partners against the loans they owe to the firm.
3. However third parties can file a case against an unregistered firm or against its partners for the recovery of loans.
4. Any partner can file a case against the firm or other partners for the dissolution of the firm or for the settlement of accounts.

## **Hindu undivided family business concerns**

They are found only in India. They are in accordance with "HINDU LAW". They are the firms which consist of all the male members of the Hindu family, who are the descendants from a common male ancestor. Only three successive generations of male members namely, father, sons, grandsons and great grandsons acquire the birth right or hold on the ancestral property. The eldest or senior most member of the family manages the business and he is called "KARTA". The liability of Karta is unlimited. While the liability of other members is limited to the extent of their share in the business.

## **EXERCISES**

### **I Fill in the blanks with suitable words :**

- 1 The concern that is owned and managed by a single person is called \_\_\_\_\_ .
- 2 The Indian Partnership Act was passed in the year \_\_\_\_\_ to regulate the affairs of the partnership firms.
- 3 The Maximum number of partners in a firm which carries out banking business is \_\_\_\_\_ .
- 4 The Head of the Hindu undivided family business is known as \_\_\_\_\_ .
- 5 The only business concern under private business organization found in India is \_\_\_\_\_ .

### **II Answer the following questions in one or two sentences each :**

- 6 Which are the small scale business organizations ?
- 7 How do sole trading concerns help the consumers ?
- 8 What are partnership firms ?
- 9 Who are sleeping dormant partners ?
- 10 How is the dissolution of partnership firm easy ?

### **III Answer the following questions :**

- 11 Mention any four merits of sole trading concerns.
- 12 Mention any four limitations of sole trading concerns.
- 13 How are partnership firms started ? Explain briefly.
- 14 Who are the different types of partners ?
- 15 Mention any four merits of partnership firms.
- 16 Mention any four demerits of partnerships firms.
- 17 What are the advantages of registering a partnership firm ?
- 18 Explain briefly about “Hindu undivided family business”.

### **IV Activity :**

- 19 Collect two advertisements and study them in the context of your lesson.

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# **CHAPTER-30**

## **LARGE SCALE BUSINESS ORGANISATIONS**



### **After studying this chapter you would :**

- Recognise the importance and salient features of large scale business organisations.
- Understand the principles, types, merits and demerits of co-operative societies.
- Understand the formation, structure, merits and demerits of Joint-Stock companies.
- Analyse the features, merits and demerits of multinational companies.

Sole Trading concerns, Partnership firms and Hindu undivided family business organizations suffer from the problems of inadequate capital stock of managerial skills, lack of continuity and lack of unlimited liability. To overcome these problems large scale business organizations came into existence. The important large scale business organization are :

1. Co-operative Societies
2. Joint Stock Companies
3. Multi-National Companies.

### **1. CO-OPERATIVE SOCIETIES**

They are one of the business organisations found all over the world. They are voluntary organizations started by economically weaker sections of the society with the motive of organising and rendering service to its members. The first co-operative society was started by Robert Owen in the year 1844 at Rochdale in England. It was a consumer Co-operative society. Generally these societies are started to achieve the economic progress of the people who join on the basis of equality. These societies free their members from economic exploitation. eg. 1) farmers join together and start a Credit Co-operative Society to avail loans at a lower rate of interest and free themselves from the clutches of local money lenders.

2) Co-operative marketing societies are started by small producers in order to save themselves from the clutches of the middlemen. They manage to get due prices for their produce.

**Formation of Co-operative societies :** In India formation of Co-operative societies is governed by the provisions of Co-operative Societies Act of 1912 or the state government. Acts which are in force in different states.

To form a Co-operative society, there must be a minimum of members. They must live in the same locality or must belong to same class or must have engaged themselves. In same occupation and must have common economic necessity. These members are called promoters. They prepare an application in prescribed form and submit it to the Registrar of Co-operative societies of the District where the society has to be established along with the prescribed fees. The application should contain the following information.

1. Proposed name of the society
2. Address of the society
3. The aims and objectives of the society
4. The area of its operation
5. Particular of share capital proposed to be raised
6. The co-ordination of the members etc., must be written clearly.

These are called Bye -laws of the society and they should be submitted to the Registrar of Co-operative societies of the districts. Receipt of the application the Registrar will thoroughly examine the details and if he is satisfied, will issue a certificate called the Certificate of Registration. On receipt of the Certificate of Registration, the society comes into existence.

### **General features of Co-operative Societies**

1. They are voluntary organizations.
2. The membership is open to all adults (above 18 years) irrespective of caste, religion, creed and gender inequality.
3. There is no upper limit for membership.

4. There is democratic management. All the members attend the General Body Meeting and each member has one vote irrespective of share of capital invested (not less than 6.25%) Profit is distributed in proportion to the share of their capital equally among all the members.
5. Their status and management are supervised by the
6. One portion of the profit is transferred to general fund.

### **Types of Co-operative societies**

1. Credit Co-operative societies.
2. Marketing Co-operative societies.
3. Producers Co-operative societies.
4. Consumers Co-operative societies.
5. Farmers Co-operative societies.
6. House building Co-operative societies.
7. Co-operative societies for different services such as – supply of drinking water, improvement of education, etc.

**Advantages of Co-operative societies :** It is easy to form Co-operative societies. There is no need for heavy capital. There is no discrimination among the members. All the members have equal rights and responsibilities. It runs on democratic principle. Each member has one vote. The liability of the members is limited. They help the members to develop habits of thrift (savings). The Co-operative societies are via media arrangements between capitalism and socialism. The main motto of the Co-operative societies is “One for all and all for One”

**Demerits of Co-operative societies :** The societies have limited capital resource. So large scale business is not possible. It is very difficult to get suitable staff. There are chances of mismanagement and misuse of money; corruption and favouritism.

### **Co-operative Movement in India**

The Co-operative Movement was started in India by passing the

Co-operative Act in 1904. An act was passed in 1912 and registration was made compulsory. After independence under Five Year Plans the Co-operative societies came to prominence. Today we have about eight lakh Co-operative societies in our country. In Karnataka state the first Co-operative society was started at 'Kanaginahala' in Gadag Taluk now a District. The Bangalore City Central Co-operative society was started in 1905. Dharwad district of our state gave more importance top prominence to Co-operative movement and hence Dharwad district is called "The cradle of Co-operative movement".

## **2. JOINT STOCK COMPANIES**

Joint stock companies Act of 1956. regulates the formation, extension, functioning, and liquidation of Joint stock companies in India. According to Joint Stock Companies Act of 1956 a Joint stock company is defined as a business organization created by law, having a separate legal entity with a perpetual succession and a common seal. Heney defines Joint stock companies as "a voluntary organisation of individuals for profit having its capital divided into transferable shares. The ownership of which is the condition of membership"

### **Types of Joint Stock Companies**

1. Chartered company
2. Statutory company
3. Registered company
4. Companies limited by shares
5. Companies limited by guarantee
6. Unlimited companies
7. Public limited companies and private limited companies.
8. Foreign company
9. Holding Company.
10. Undertaken company.

## **Promotion of a Joint stock company**

The promotion of a Joint stock company includes different stages. They are :

- 1 Promotion / Formation
- 2 Registration or Incorporation
- 3 Capital subscription / Collection of share capital.
- 4 Commencement of business

**1. Promotion stage :** It is the first stage in the formation of a Joint stock company. Some persons join together with a view to start a company. They are called Promoters. They collect all the information regarding formation, promotion, financial requirement and others. They prepare necessary documents like Memorandum of Association, Articles of Association and Prospectus for Registration. They submit these documents to the Registrar of companies for Registration. They take necessary steps to pool the share capital in case of public companies. They follow up the process to obtain Certificate of Incorporation. These promoters work as first directors to formulate the company.

**2. Registration :** For public companies, a name has to be chosen. This name should not be identical to any existing company and should not have the implication of the patronage of the government company. The promoters then submit the requisition letter along with the written documents such as Memorandum of Association and Articles of Association to the Registrar along with prescribed stamp duty. The document must be signed by the first seven directors. It should contain the name of the company, the names of first seven directors, their addresses, their consent to act as first directors along with two witnesses. A Chartered Accountant or practising advocate of supreme court must countersign it stating that all the required formalities are fulfilled. The Registrar of companies verifies all the details and documents and after getting convinced, registers in the Register of corporation of companies and issues the Certificate of Incorporation.

The important documents required for the formation of a Joint Stock company are Memorandum of Association and Articles of Association. In case of public limited companies prospectus is issued to the public to pool the share capital.

The Memorandum of association contains the aims and objectives of the company, the different types of shares, the ways of subscription, etc. The Articles of Association contains the rules and regulations regarding the administration of the company.

**3. Capital subscription stage :** After receiving the Certificate of Incorporation, the directors issue prospectus to the public. With this the capital subscription to the company starts. A private limited company can not issue prospectus but in lieu of prospectus a statement is submitted to the Registrar.

**4. Commencement of business :** Even after raising the capital, a public limited company, cannot commence business. In order to commence business it should get a Certificate called “Certificate to Commence the business” from Registrar and only after obtaining this certificate the company can start its business.

### **Merits of Joint Stock Companies**

1. The liability of share holders is limited. That means when company incurs any loss or unable to clear the debts to the creditors, the liability of share holders is limited to the extent of their share amount.
2. There is no limit for share holders in the public limited companies, hence there is a possibility of raising more capital.
3. The shares in public limited companies are freely transferable. It encourages the public to come forward or invest their money in companies.
4. A Public Joint Stock company has a perpetual succession. The death or insolvency of any director or member does not lead to the dissolution of the company for there is legal protection for the company.
5. There is a large capital investment and managerial ability; so it is possible to run large scale business.

6. Large scale production helps for goods to be produced at lower cost and can be sold competitive prices.
7. The public limited companies provide employment to a large number of people. Habits of thrift is also encouraged among the people.
8. The companies contribute to the economic development of a nation by paying taxes and duties to the government.
9. Administration is carried on by the experts.
10. Joint Stock Companies help a country to earn more foreign exchange. It adds to the national income.

### **Demerits of a Joint Stock Companies.**

1. The formation of a joint stock company is expensive and it is required to fulfil many formalities. The process is difficult and cumbersome.
2. The share holders are the real owners of the company. But they do not take active part in the affairs of the company. The Directors only look after the day-to-day affairs. Large number of share holders do not attend the annual general body meetings.
3. There is no personal contact between the owners and the workers.
4. Limited liability may lead the directors to take wrong decisions.
5. The powers of the company are vested with only a few people. Many a time they act like dictators.
6. Many a time these Joint Stock Companies try to control the government also.

### **3. MULTINATIONAL COMPANIES (MNC's)**

Multinational companies took their birth as early as by 1860. It means they became popular after the Second World War. In the early days U.S.A was the homeland of these companies. Later on a large number of such companies emerged in European countries and Japan. Today multinational companies have developed even in developing countries.

South Korea has a number of multinational companies like Samsung and Hyundai; Indian companies such as Tatas, Birla, Infosys, Wipro etc., have become multinational companies.

### **Meaning and explanation of Multinational companies**

A Multinational company owns and manages business in two or more countries. According to ILO (International Labour Organisation) report, the essential management of the multinational enterprises lies in one country and they carry on their business in a number of other countries e.g. Sony (Japan) Coca-cola (USA), Samsung (S. Korea), Hindustan lever (U.K), Philips (Holland), Glaxo (U.K), etc.

### **Features**

1. They are large companies. Their assets and transactions are also of large scale.
2. They operate their business at least in six countries.
3. They produce goods even in the countries where they operate their business.
4. They have centralised control from head office.
5. They have production, marketing and other facilities in several countries.
6. They play an important role in International Trade.
7. They provide technological facilities in the countries which come under their preview.

### **Advantages for Home country**

1. They obtain raw materials from host countries at low prices.
2. They may also obtain the technological and administrative skills from host countries.
3. They export raw materials and finished products to host countries thus their profit is more.
4. It is possible to earn ample income through profit, royalty and through administrative agreements with host countries.
5. They create more employment opportunities in the home country.

## **Advantages for depending or host countries**

1. The capital investment increases even in host countries.
2. If the host countries are developing countries, the home country provides technology and through administrative procedures, it causes a revolution.
3. The host countries are helped by the increase of exports and decrease of imports.
4. It is possible to produce high quality products.
5. The important opportunities to increase in host countries, Research and developments are promoted in host countries.
6. They help the utilisation of internal resources.

## **Demerits of Multinational companies.**

Home country gets lion's share in the profits. They develop dominance in host countries. The competition in host countries may vanish and monopoly of multinational companies may increase. There are many complaints against these companies that they are not respecting human rights. There is a chance for reduction of natural resources in host countries. Many a time they follow unscrupulous methods to avoid paying taxes. The habits of the people change in host countries. eg - Coca-Cola. They exploit the labour force in host countries. Many a time they do not transfer technology in a proper way. They try to interfere in the political affairs of the nation.

The industrial policy of our government restricted the foreign investment in our country till recent times. But since the economic liberalization policy of India in 1991, many Multinational companies have started their operations in India. At the same time, a number of Indian firms also have become Multinational companies. e.g. WIPRO, INFOSYS, In India, about 40 MNC are working as of now.

So far we have learnt in brief about Sole trading concerns, partnerships, Hindu undivided business firms, Co-operative societies Joint stock companies and Multinational companies which come under private sector. Besides this, we have. Government undertakings, Public sector undertakings and Public utilities.

**Government undertakings :** These are owned by the government for the public purpose. They are controlled and managed by the government. A Department of government under the control of a minister run these undertakings. They are started either by Central Government or by State Government or Local self Government. e.g. - Mining, Metallurgy, Ship building, Aeronautics, etc.

**Public sector undertakings :** These are under the control of public and government. eg - Gujarat Fertilizers, Cochin Refineries etc.

**Public utilities :** These are also government undertakings but they are established to provide essential products or services to the public. They do not intend to earn profits. e.g. - Cooking gas, water, electricity, railways, posts, telegraphs etc.

### **Stock Exchanges**

The capital of a joint-stock company is divided into small units called shares. The joint stock companies can also raise capital through issue of debentures. There is a provision to sell and buy these shares and debentures. The share or debenture holders can sell their shares or debentures at any time. For this purpose Stock Exchanges are established. In India the first share market was started in 1875 at Mumbai and even today, it is one of the prestigious stock markets in the world. The other stock exchanges are secondary share markets. Only the shares and debentures of listed out Joint stock companies can enter into these stock exchanges. Nowadays Kolkata and Bangalore stock exchanges facilitate to carry out their business through electronic media. All the stock exchanges are controlled by a Board called Securities Exchange Board of India (SEBI).

### **EXERCISES**

#### **I Fill in the blanks with suitable words :**

- 1 The formation of co-operative societies is regulated as per The Indian Co-operative Act of \_\_\_\_\_.
- 2 The first co-operative society in the world was started by \_\_\_\_\_ in \_\_\_\_\_ (country).

- 3 The maximum number of members in co-operative societies is \_\_\_\_\_.
- 4 The co-operative societies come into existence after receiving \_\_\_\_\_ from \_\_\_\_\_.
- 5 The First co-operative society was stated in Karnataka at \_\_\_\_\_.
- 6 The first stage of the formation a Joint stock company is \_\_\_\_\_.
- 7 The most important documents required to start Joint companies are \_\_\_\_\_ and \_\_\_\_\_.
- 8 The Multinational companies were first started in \_\_\_\_\_ (country).
- 9 The examples of multinational companies with Indian origin are \_\_\_\_\_ and \_\_\_\_\_.
- 10 The first share market was started in India at \_\_\_\_\_.

## **II Answer the following questions :**

- 11 Give four examples of public utility service companies.
- 12 Mention any six features or characteristics of co-operative societies.
- 13 Mention the different types of co-operative societies.
- 14 List out the merits and demerits of co-operative societies.
- 15 Which are the stages to formulate Joint Stock Companies ?
- 16 Mention the advantages of Joint stock companies.
- 17 What are the advantages of multinational companies to home country?
- 18 What are the important functions of stock exchanges?

## **III Activity :**

- 19 With the help of your teachers start a co-operative society in your school.

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