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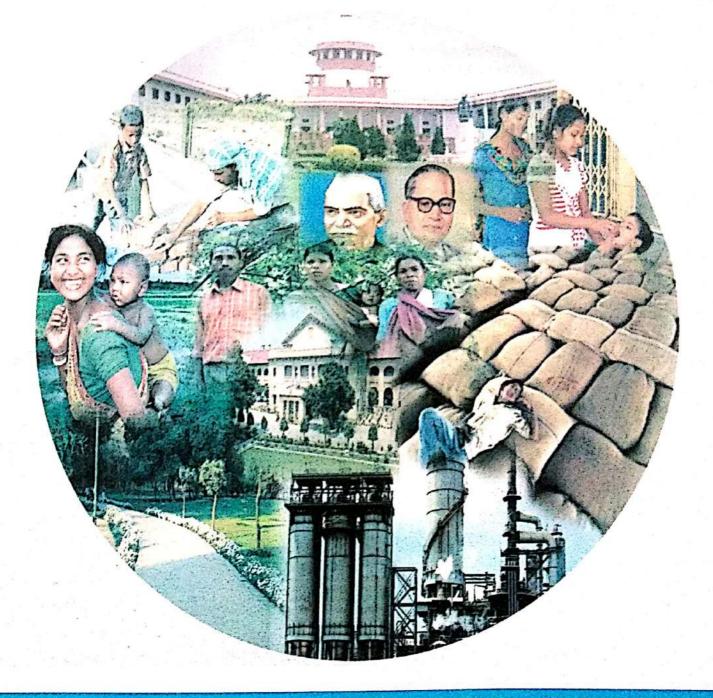








PART-I





Our Universe

· KAY TERMS

collision : an accident involving the crash of two

objects

comets : masses of ice and dust that move around

the Sun and look like bright stars with a tail

gravitational force: (here) the force that pulls objects towards the centre of the space; a force

that pulls objects towards the Earth

! infinite : without any end

meteor : a piece of rock from outer space that

makes a bright line across the night sky

as it burns up while falling through the Earth's atmosphere

a story from ancient times, especially one that was told to explain natural

events or to describe the early history of

the people

Saptarishi Mandal : a group of seven stars

universe : the whole of space and everything

included in it such as the Earth, planets,

Sun, the stars

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myth

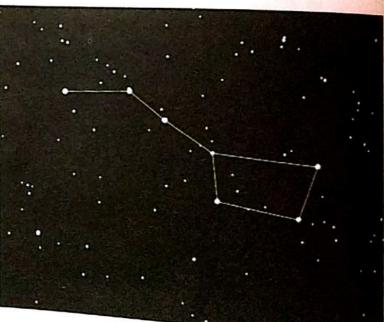
Our Earth is a tiny part of a vast universe and thus, surrounded by infinite space. This space appears

blue in the day due to the sunlight but is filled with beautiful twinkling stars at night. For many years, people have tried to solve the mystery behind our universe. What is the distance between stars and the Earth? Why do the stars shine? What are they made up of? This chapter will try to answer these questions.

CONSTELLATIONS

If you concentrate on stars, you can see that several stars cluster together to form various shapes known as **constellations**. These constellations in ancient India were known as *Nakshatra Mandal* (Lamp). They are known by different names throughout the world according to their groups. In India, the group of seven stars as seen in the sky, is recognised as *Saptarishi Mandal* (Big Dipper) because ancient people regarded these stars as seven sages who light up this Earth through their knowledge. In France, it is recognised as a **sauce pan**, in Britain as a **plough**. In other parts of India, the group of four

stars of this constellation is known as Charpai which is a part of Ursa Major.



Saptarishi Mandal

In ancient times, people did not possess advanced technology, so they could not get exact information about these stars. To acquaint themselves, they named these constellations and wove local stories about them.

The Story Of The Pole Star

Once there lived a king called Uttanapada. He had two queens, Suniti and Suruchi. Queen Suniti, the older queen, had a son named Dhruv and Queen Suruchi also had a son named, Uttama.

One day Dhruv went to meet his father in the garden. The king was delighted to see his son and asked him to sit on his lap. Just then, Queen Suruchi came and she was furious to see Dhruv there. She sent him back to his mother.

He was quiet and thoughtful throughout the day long. Finally he asked his mother, "Is there anyone more powerful than the king?"

His mother replied, "Narayan is more powerful than the king." She told him that he lived far away in the mountains.



That night, when his mother was asleep, Dhruv left his house and went to the mountains. Finally, he came to the edge of the Northern Sky, where he met Narada and asked him where he could find Narayan.

Sage Narada told him to remain where he was and to think only of Narayan. So, Dhruv stopped where he was and meditated thinking only of Narayan.

His meditation released such strong forces of energy that it shook the Earth and disturbed the *saptarishis*, the seven sages, who were meditating nearby. They wondered

whether it was some great king or God who was releasing such tremendous energy. They were surprised to witness such a small boy meditating. They surrounded the boy and prayed with him as he meditated.

Soon, Indra became worried. He thought that Dhruv was meditating to take his throne as a blessing from Narayan. So, he tried to distract Dhruv. He took the form of Dhruv's mother and begged him to come home. But Dhruv did not listen to him. Indra sent various

monsters and tried everything to distract him but he was not successful.

Ultimately, Vishnu came and asked Dhruv for his wish. But Dhruv did not ask him for anything but only smiled at him.

So, Vishnu turned Dhruv into a little star and placed him high in the sky. He turned the seven sages into stars and placed them near Dhruv in a group. This group of stars, today, is known as *Saptarishi* and they always point towards the Dhruv Tara, (according to Hindu mythology), or the Pole Star.

Even now, we can see the little star shining high without moving as Dhruv also never moved from his meditation for Narayan and the seven stars move together protectively around Dhruv the Pole Star. This group of seven stars is known as the Big Dipper in other countries.



Since the ancient people were mostly dependent on agriculture and animal husbandry, these constellations were named after the animals whose images they observed in the group of stars.

These constellations have acquired an important place in the Indian society since the ancient times. These stars were earlier used to determine directions. It was a popular Indian belief that the Pole Star always shines at the North Pole since it points towards the north direction. It was also believed that the first two stars of the *Saptarishi Mandal*, on extention, always pointed towards the Pole Star. However, these stories were often termed as myths as they lacked scientific proof. Among these stories, the story of the Pole Star is the most interesting.

Fill in the blanks.

- 1. Our Earth is surrounded by infinite
- A constellation is also known as

 Mandal.
- 4. The Pole Star helps in finding the direction.

CELESTIAL BODIES

All the stars, meteors, natural satellites, comets,

planets, including our Earth, the Sun and the moon are called celestial bodies. Stars which appear to be very tiny from such a long distance are actually huge gaseous bodies. These are formed by the collision of helium and hydrogen and release large amounts of heat and energy. The Sun is the nearest star to the Earth and thus, appears huge. Unlike stars, some of the celestial bodies are made from solid substances and some are made from solid, liquid and gaseous substances.

These celestial bodies are actually huge in size but appear tiny as they are far away from the Earth. Some of these celestial bodies shine brighter and some do not. It is because celestial bodies such as the stars have their own light whereas all planets and satellites reflect light from the Sun. To understand the phenomenon behind the visibility of stars only at night, let us do the following experiment.

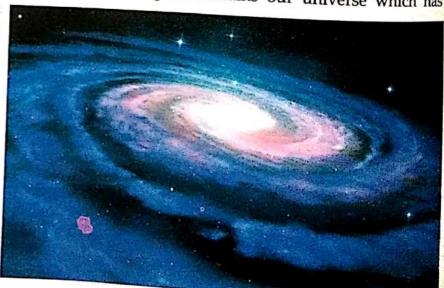
Take a coloured paper and punch a few holes in it with the help of a needle. Then wrap this paper on a torch with the help of a rubber band. Now, light the torchin a dark room. What do you observe? You observe many shining dots on the wall of the room, resembling stars. Now, repeat the exercise with the lights turned on. There are no shining dots on the walls. Likewise, when the Sun rises, other stars also disappear. It means that the Sun, being nearer to the Earth, gives us more light than the other stars. So we cannot see other stars inspite of their presence in the sky.



The Sun is the only star in our galaxy that is not a part of any constellation.

UNIVERSE

All celestial bodies appear to be sculptured and hanging in the sky. This infinite sky is known as space. Space contains our universe which has



The Milky Way Galaxy

many celestial bodies found in groups. Different stars, planets, gases, remenants of ε are and dust particles are bound together by the force of gravity. They are called **galaxies**. These galaxies take millions of light years to expand. This group of countless galaxies is called **universe**. A small group of stars is called **Nakshatra Mandal** which combines with gases and depositions of dust particles to form galaxies. Different **Nakshatra Mandals** contain **Tarkiya Mandals** and our solar system is one of them.

········· KNOW More

Light year is the unit used to measure distance. This is used to calculate distance between the heavenly bodies. Light travels at a tremendous speed of about 3,00,000 km per second. The distance that the light travels in a year is called a light year. The light travels 95 billion km in a year, so this distance is known as a light year.

Quick Raviston

Write (T) for true and (F) for false statements.

- 1. All stars, the moon, the Sun, planets and comets are called celestial bodies.
- 2. Stars are actually very tiny in size.
- 3. The space contains our universe.
- 4. Stars can only be seen during daytime.

Origin Of The Universe

The mysteries of the universe have always been a matter of curiosity for humans. There are many stories prevalent regarding the origin of universe. The most acceptable of them is the Big Bang Theory. According to this theory, around 13.7 billion years ago, an explosion took place in space which is called the big bang. This explosion led to the formation of the universe and the celestial bodies and since then, the universe has been expanding. Our solar system is a part of the Milky Way Galaxy. In ancient India, it was presumed to be a river of light in the sky. That is why it was named Akash Ganga which means 'the river flowing in the sky'. Besides Milky Way, there are many other galaxies present in the universe.

Thus, some of the secrets related to our universe have been unveiled by the scientists but some are yet to be discovered.

COMETS

Comets are celestial bodies made up of snow and rocky dust. They also revolve around the Sun in their own orbits. When comets reach near the Sun, they develop a long tail that starts glowing. The tail is thousands of kilometres long. In the past, people considered comets to be bad omens. Scientists believe that there are about 2 billion comets orbiting the Sun.

The most famous comet is the Halley's Comet. It can be seen once in every 76 years. It was last seen in 1986. There are some comets that take even more time than Halley's Comet to orbit the Sun.

Quick Revision

Tick (√) the correct options.

- The big bang took place billion years ago.
 (a) 14.9 (b) 13.7 (c) 12.5 (c)
- 2. Our universe is still
 - (a) depleting (b) expanding
 - (c) moving
- Our solar system is a part of thegalaxy.
 - (a) Milky Way
 - (b) Nakshatra Mandal
- (c) universe



The Big Bang



Use Cordova Smart Class Software on the smart board in class to do these

1.	Choose the correct options.	xercis
	(a) Astar shines	
	(i) through its own light (ii) through the light of others	1
	(iii) through the light of the moon (iv) through the light of the planets	1
	(b) The direction denoted by the Pole Star is	L
	(i) North (ii) South (iii) East (iv) West	1
2.	Match the following.	
	(a) the Sun (i) a planet	
	(b) a comet (ii) a large group of millions of galaxies	
	(c) the Earth (iii) a star	
	(d) the universe (iv) a larger group of millions of stars	
	(e) a galaxy (v) a tailed celestial body	
3.	Fill in the blanks.	10
	(a) The group of seven stars is named as in India.	
	(b) All the planets and the satellites illuminate due to the light of	
	(c) 1s the nearest star to the Earth.	
4.	are located inside various Nakshatra Mandale	
5.	What is Halley's comet? Describe its characteristics.	
6.	What are celestial bodies? What are they formed of? How and when did the universe originate?	
7.	Define a galaxy.	
8.	Why can't we see the twinkling stars of night in the day time?	
9.	Explain the 'Big Bang Theory'.	
	Additional Questions For Practice	
A.	Multiple Choice Questions (MCQs) — Tick (✓) the correct options.	
	The group of seven stars in the sky is known as	
	(a) Charpar	TO A
	(-) 1	100
	(a) humans (b) birds 3. The celestial bodies remain hung in space decreased (c) animals	
	(a)	
	() Diffiction	\neg
	(a) all the same amount of and energy	112
	(b) fire	
	(a) area Collidins our universe.	
	(a) space (b) galaxy (c) solar system	7
10	GEOGRAPHY-6	1
-		337

B. Fill in the blanks.

- 1. During night, the sky is fi' ad with stars.
- 3. Satellites reflect the light of the
- 4. The group of countless galaxies is called

C. Very Short Answer Questions

- 1. What is the Saptarishi Mandal recognised as in Britain?
- 2. What were the seven stars of the Saptarishi Mandal regarded as by ancient Indians?
- 3. How are stars formed?
- 4. What is space?

D. Short Answer Questions

- 1. Why were the constellations named after animals?
- 2. How can we locate north direction with the help of stars?
- 3. What is Akash Ganga?

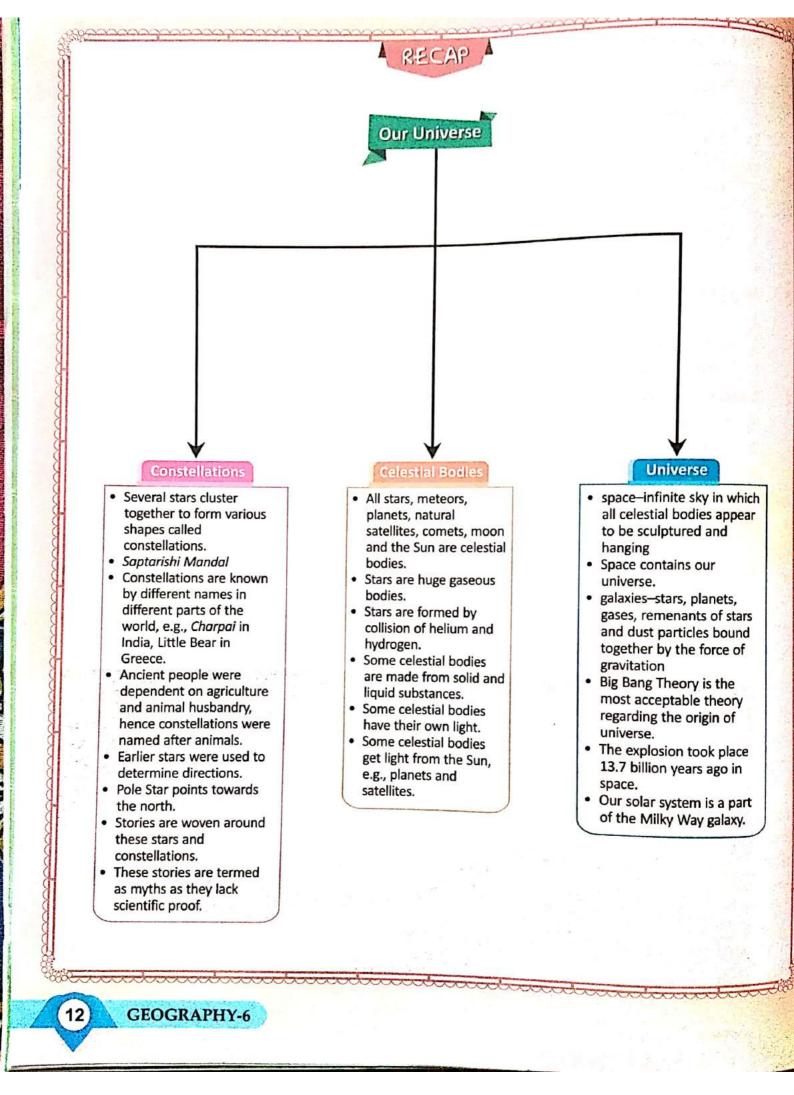
E. Long Answer Questions

- 1. What are constellations? Explain how they came to be known by their present names.
- 2. Write four features of the celestial bodies.
- 3. List the heavenly bodies found in our universe.

ACTIVITY

- Collect information about the satellites of Jupiter. Prepare a scrapbook. Do not forget to paste
 pictures to make your work look beautiful.
- Make a project file on 'The Sun'. Explain its importance to us. Paste pictures to make your project attractive.
- Presence of air, water and sunshine supports life on the Earth. What do you think will happen if these are no longer found on the Earth? Discuss in class.





Solar System

asteroids	: planet-like large pieces of rocks that revolve around the Sun	orbit	Earth
comet	a beautiful heavenly body that has a long tail	Orbit	 an elliptical path followed by a celestial body around the Sun or planets
constellations	groups of stars forming various patterns	planet	a heavenly body that revolves around the Sun
galaxy	a group of billions of stars	Saptarishi	: a group of seven stars
meteors	: small pieces of rocks that revolve around the	satellite	: a heavenly body that revolves around a planet
!	Sun	star	a heavenly body that has its own heat and light
meteorites	: those meteors that reach the surface of the		ence describerations of the state of the sta

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When we look at the sky, we see different types of objects. During the day, we see the Sun. At night, we see many shining objects in the sky like the stars, the moon and the shooting stars. People have always looked at the sky with curiosity. There have always been some questions in their minds. Why do stars twinkle? Why does the size of the moon change? Where does the Sun hide at night? Let us try to find the answers of these questions in this chapter.

All objects like stars, planets, satellites, comets, asteroids and meteors in the sky are called

celestial or heavenly bodies and they collectively form the universe.

THE UNIVERSE

The universe is vast and limitless. It is also called **space**. All heavenly bodies as well as dust and gases found in space are included in the universe. Nobody knows exactly how the universe was formed. Most astronomers think that the universe started with a very big explosion called the **big bang** about 13.7 billion years ago. Our universe has a large number

of galaxies. A galaxy is a group of billions of stars and clouds of dust and gases. The Sun and the stars form our galaxy. This galaxy is called Milky Way or Akash Ganga.

• KNOW More

Geography, an English word, has its origin in the Greek language. It is made up of two Greek words, 'geo' meaning 'Earth' and 'graphia' meaning 'writing'. It means the description of the Earth.



The Milky Way Galaxy

STARS

Stars are huge heavenly bodies made up of hot gases. They emit their own heat and light. They twinkle at night. They look small because they are very far from us. The Sun is also a star. It looks big because it is very close to the Earth. The second nearest star to the Earth is **Proxima Centauri**.

Celestial or heavenly bodies are very far from each other. The distance between the heavenly bodies and the Earth cannot be measured in ordinary units. Therefore, the distance in space is measured in light years. A **light year** is the distance travelled by light in one year. The distance of **Proxima Centauri** from the Earth is approximately **4.25 light years**.

Clouds of dust and gases in space are called **Nebula**. We can see them when there are stars in or near it.

Quick Revision

Tick (\checkmark) the correct options.

- The stars, planets, satellites and asteroids are known as bodies.
 - (a) celestial
- (b) heavenly
- (c) both of these
- 2. The distance of Proxima Centauri from the Earth is around light years.
 - (a) 3.28
- (b) 4.28
- (c) 5.28

----- KNOW More

The speed of light is 300,000 km per second. The light from the Sun reaches the Earth in about 8 minutes.

Constellation

When we watch the sky at night, we notice that different groups of stars form various patterns. These groups of stars forming different patterns are called **constellations**.

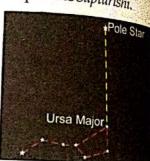
A group of four stars called *Charpai* or **Little Bear** (Ursa Minor) is one such constellation. It forms a part of the **Ursa Major** or **Great Bear** (Big Bear)

constellation. Some other constellations are Scorpin (the scorpion), Leo (the lion) and Cygnus (the swan). In ancient times, there were no scientific instrument to know the directions during the night. So, people used the stars to determine directions.

The brightest star in the north is the Pole Star. It is also called the North Star. Its position is fixed in the sky. The first two stars of the Saptarishi point towards the Pole Star. They are called pointer stars. We can easily locate the Pole Star with the help of the Saptarishi.



Ursa Major (Great Bear)



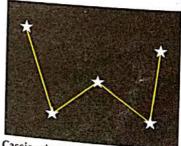
Locating The Pole Star



Scorpius (Scorpion)



Leo (Lion)



Cassiopeia (W Or Inverted M Shape)

Some Prominent Constellations

THE SOLAR SYSTEM

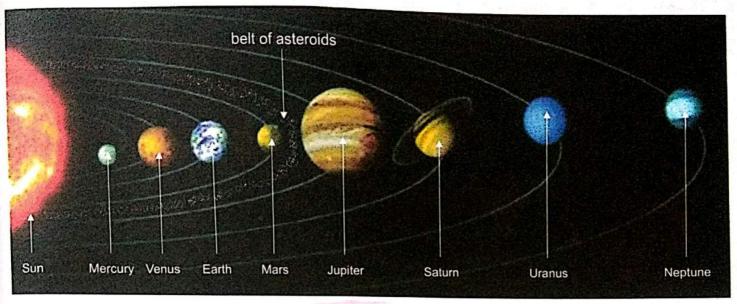
According to the modern view of the scientists, our solar system is around 460 crore years old.

The Sun, the eight planets with their satellites, and some other heavenly bodies like asteroids, meteors and comets form the solar system. The Sun is at the centre of the solar system.

THESUN

The Sun is the largest member of the solar system. All the planets, satellites, asteroids and comets revolve around it. It is called the 'Father of the Solar

Family'. It is about 150 million km away from the Earth. It produces a lot of heat and light which is necessary for all forms of life on the Earth. Its gravitational force holds the solar system intact.



The Solar System

The surface temperature of the Sun is about 6,000°C. The Sun is also made up of hot gases. Its gravitational force keeps all the members of the solar system together. All the planets and their satellites shine because they reflect sunlight.

Quick Revision

Fill in the blanks.

- 1. The brightest star in the north is the
- 2. The largest member of the solar system is the
- 3. The first two stars of the Saptarishi are calledstars.
- 4. The Sun is about million km away from the Earth.

THE PLANETS

The planets are celestial bodies that do not have their own heat and light. They are spherical in shape. They revolve around the Sun in their fixed paths called **orbits**. While revolving around the Sun, the planets also rotate on their own axis.

There are eight planets in our solar system. According to their distance from the Sun, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

Scientists have categorised planets into two groups:

The Inner Planets

Mercury, Venus, Earth and Mars are the inner planets. They are closer to the Sun. They are made up of rocks and stones. They are also known as the terrestrial planets.

The Outer Planets

The outer planets are Jupiter, Saturn, Uranus and Neptune. They are made up of gases. Thus, they are also known as **gas giants**.



Two planets, Venus and Uranus, rotate from east to west while all other planets rotate from west to east.

	Inner Planets They are made up of rocks. Their density is high.		Outer Planets They are made up of gases and fluids. Their density is low.
1.	Mercury – Single revolution – 88 days Rotation on its own axis – 59 days moons–0		Jupiter – Single revolution – 11 years 11 months Rotation on its own axis – 09 hours and 56 min moons – 69
2.	Venus – Single revolution – 225 days Rotation on its own axis – 243 days moons – 0	6.	Saturn – Single revolution – 29 years and 5 months Rotation on its own axis – 10 hours and 40 min moons – 62
3.	Earth – Single revolution – 365 days Rotation on its own axis – 01 day moons – 1	7.	Uranus – Single revolution – 84 years Rotation on its own axis–17 hours and 14 min moons – approximately 27
4.	Mars-Single revolution -687 days Rotation on its own axis-01 day moons-02	8.	Neptune – Single revolution – approximately 164 years Rotation on its own axis – 16 hours and 7 min moons – 13

THE EARTH-OUR PLANET

The Earth is the fifth largest planet in the solar system and is the third planet from the Sun. It is the only planet in the solar system that supports life.

The Earth is the habitat of many animals and plants. It is a unique planet in many ways. Among all the planets, it is at the most suitable distance from the Sun. Due to this appropriate distance, it has moderate temperature that makes life possible. The presence of water on the Earth also supports life.

When seen from the outer space, the Earth looks blue. It is due to the presence of water on its surface. Therefore, the Earth is also known as the Watery Planet or Blue Planet. Another unique feature is that due to the temperature which the Earth experiences, water is available in three forms—solid, liquid and gas.

Our Earth is surrounded by a blanket of air called atmosphere. It has gases like oxygen, nitrogen and carbon dioxide. These gases are necessary for life.

The air on the Earth is rich in oxygen. This is necessary for survival. The atmosphere protects us from the harmful ultraviolet radiations coming from the Sun.



The Earth As Seen From Space

The atmosphere also traps the heat of the Earth. It stops the heat from escaping into outer space. It also prevents us from the harmful radiations of the Sun. It keeps our planet warm and suitable for living beings.

We live in the uppermost layer of the atmosphere which is called **lithosphere**. Human beings as well as other living organisms get food in one way or the other from the soil present in the lithosphere. A variety of minerals that are essential for our survival and livelihood are found in this layer. Water is present on the Earth in the form of seas, rivers, oceans, lakes, streams and ponds. The water present in seas and oceans is salty and, thus, unfit for consumption.

One or another of life can be found on almost all of the Earth's surface. In the entire solar system, the Earth is the only planet in which atmosphere, hydrosphere and lithosphere can be found. Biosphere, in which the flora and fauna can be found, is formed due to the interaction of these three layers. Results of extensive research till date, have shown that the Earth is the only planet in the universe that supports life.

In ancient times, people thought that the Earth was flat. Astronauts who saw the Earth from the space, found it round. But it is not a perfect circle. It is bulging at the equator and flat at the poles. This is the result of rotation of the Earth on its axis.

OTHER PLANETS

Mercury

It is the planet closest to the Sun. It has no moon. During the day, the temperature of Mercury is 427° C and when it is night, the temperature is –183°C. It takes 88 days to complete one revolution around the



Mercury

Sun. It takes 59 days to rotate on its own axis. It is named after the mythical Roman God, Mercury.

Venus

It is the brightest and hottest planet of the solar system. It is named after the Roman Goddess of love and beauty. It is the second planet from the Sun. Its size is nearly equal to that of the Earth. Therefore, it is also



Venus

known as Earth's twin. It takes 225 days to complete one revolution around the Sun and 243 days to rotate on its own axis. Like Mercury, it also has no moon.

Mars

It is the planet next to the Earth in the solar system. It is named after the Roman God of war. It is also known as the **Red Planet** which is because of the presence of iron oxide on its surface that gives it a reddish



Mars

appearance. It completes a single revolution of the Earth in 687 days and takes one day to complete a rotation on its axis. Its rotation period is almost similar to the Earth. Mars has two known moons, **Photos** and **Deimos**.

Jupiter

It is the largest planet of the solar system. A large part of it is made up of gaseous material. It is named after the mythical Roman God, Jupiter. It completes a single revolution of the Sun in 11 years and 11 months and it



Jupiter

takes 9 hours and 56 minutes to complete one rotation on its axis. It has 69 known moons revolving around it. Therefore, it is also known as a Mini-Solar System.

Saturn

It is the most beautiful planet of our solar system.There are bright rings around its equator. These rings are made up of icy particles, dust and gases. It takes 29 years and

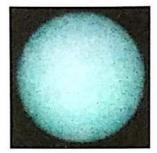


Saturn

5 months to complete a single revolution of the Sun and 10 hours and 40 minutes to complete one rotation on its own axis. Saturn has 62 known moons.

Uranus

It is the seventh planet from the Sun. It is named after the mythical Greek God of sky. Like Saturn, it also has rings around it.



Uranus

It completes its revolution around the Sun in 84 years and it takes 17 hours and 14 minutes to complete a rotation on its axis. It has 27 known moons so far. A large part of it is made up of ice. Therefore, it is also known as the Ice Giant.

Neptune

It is the eighth and the farthest planet from the Sun in the solar system. It is named after the mythical Roman God of sea. It takes 164 years to complete one revolution of the Sun and



Neptune

16 hours and 7 minutes to complete a single rotation on its axis. It is 17 times the mass of the Earth. It has 13 known moons.



A few years back, Pluto was considered the ninth planet i of the solar system. In 2006, the International Astronomical Union (IAU) termed it as a dwarf planet. A dwarf planet is a spherical celestial body, much smaller than a planet, that revolves around the Sun.

THE SATELLITES (Moons)

Satellites are celestial or heavenly bodies that revolve around the planets. The word satellite means 'an attendant or a companion'. They are so called because they revolve around the planets.

Satellites rotate on their own axis. Satellites move around the planets from west to east.

Today, we know that there are more than 160 satellites in our solar system. Mercury and Venus are the only planets that do not have any satellites. Like planets, satellites also do not have their own light. They shine because they reflect the light of the Sun.

Quick Revision

Write (T) for true and (F) for false statements.

- 1. The Earth is also called the Red Planet.
- 2. A celestial body that revolves around a planet, is called a satellite.
- 3. Jupiter has 66 moons revolving around
- 4. Uranus has been named after the mythical Roman God of sea.

The Moon

The moon is the only natural satellite of our planet Earth. It is the closest celestial body to the Earth. It is about 3,84,400 km away from the Earth. It has no light of its own. It reflects the light of the Sun.

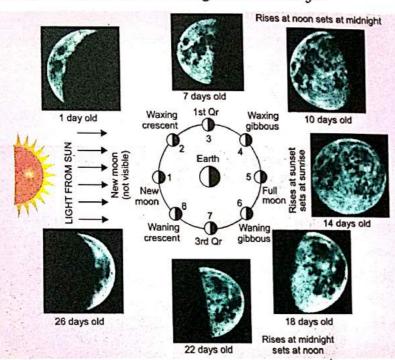
The moon appears to increase and decrease in size. It appears at different positions and in different shapes at different times. These are known as the phases of the moon. The lunar calendar is based on the phases of the moon. In India, the ascending lunar phases of days are called the shukla paksha (for night) and the descending lunar phases are called krishna paksha.

Phases are caused due to the revolution of the moon around the Earth. The moon takes 27 days and 8 hours to complete one revolution around the Earth. The visible shape of the moon that reflects sunlight, changes from night to night.

When the moon travels from the new moon to the full moon phase, the visible portion increases. This is called waxing of the moon. When the moon journeys from the full moon to the new moon phase, the visible portion decreases and the moon is said to be waning.

Actually, the moon is constantly half bright and half dark but the angle of view from the Earth keeps on changing.

When the dark hemisphere of the moon faces the Earth, we call it a new moon night or Amavasya.



Phases Of The Moon

When the bright hemisphere of the moon faces us, we call it a **full moon night** or **Poornima**.

Sometimes, when the moon comes between the Sun and the Earth, it casts its shadow on the Earth. This is called an **eclipse**. When it covers the Sun completely, a **total solar eclipse** occurs. It becomes dark in the day time. When the Earth comes between the Sun and the moon, a **lunar eclipse** occurs.

There is no air and water on the moon. It does not have an atmosphere like our Earth. Thus, there is no life on the moon. The moon is very hot in the day (120°C) and very cold in the night (–120°C).

· KNOW More

Human-made satellites are called artificial satellites. INSAT, IRS, EDUSAT are India's artificial satellites.



Artificial satellites help us in weather

forecasting, telecommunication and various other activities. Because of them, we are able to see cricket matches and other TV programmes in our homes.

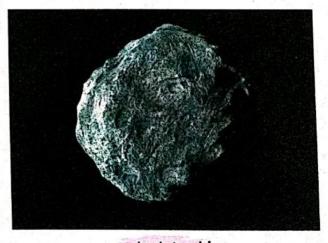
On July 21, 1969, two American astronauts, Neil Armstrong and Edwin Aldrin landed on the

moon. They explored the surface of the moon.

ASTEROIDS

Asteroids are small planet-like heavenly bodies found in the solar system. They are large pieces of rocks floating in space. Most of them are located between Mars and Jupiter. This area of the space is also known as the asteroid belt.

They are also called **planetoids** or **minor planets**. Scientists believe that asteroids are the broken parts of a planet. The main example of an asteroid is **Ceres**.

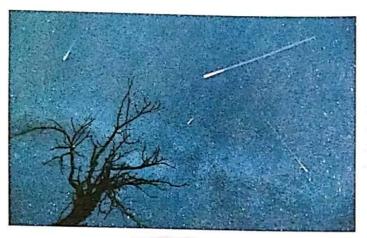


An Asteroid

METEORS

At night, you must have seen some bright streaks of light moving across the sky with great speed. These are called **meteors**. They are also called **shooting stars**.

Meteors are small pieces of rocks. Like many heavenly bodies, they also revolve around the Sun. They cannot be seen as they are very small. Meteors can be seen in the sky only when they enter the Earth's atmosphere. Most of them burn up and become gases. Some big meteors do not burn up completely. They reach the surface of the Earth and are called **meteorites**.



Meteor Shower

When they hit the Earth, they create large depressions known as craters. Many such craters are found throughout the world. Some of the famous craters can be seen in Ramgarh in Rajasthan and Arizona in the USA. The crater in Arizona in the USA, is the largest known crater in the world.



The Meteor Crater At Arizona (USA)

Many meteorites have been collected by scientists.

They are useful in the study of our solar system.

Most meteorites contain a large amount of iron.

COMETS

Comets are celestial bodies made up of snow and rocky dust. They also revolve around the Sun in their own orbit. When comets reach near the Sun, they develop a long tail that starts glowing. The tail is thousands of kilometres long. In the past, people considered comets to be bad omens. Scientists believe that there are about 2 billion comets orbiting the Sun.

The most famous comet is the Halley's Comet. It can be seen once in every 76 years. It was last seen in 1986. There are some comets that take even more time than Halley's Comet to orbit the Sun.



The Halley's Comet

Quick Revision

Tick (\checkmark) the correct options.

- - (a) meteorite
- (b) nebula
- (c) asteroid

(D

20



Use Cordova Smart Class Software on the smart hoard in class to do these exercises

1.	Cho	oose the correct options.				
	(a)	At present the number of plan	ets is			
		(i) 8 (ii) 9		(iii) 10	(iv) 12	
	(b)	The biggest planet of the solar	system is		(IV) 12	
		(i) Earth (ii) M		/;;;\ T:1-	············	
2.	Mat	ch the following.		(iii) Jupiter	(iv) Saturn	
	(a)	the largest planet	(i)	Venus		
	(b)	life planet	(ii)	Moon		
	(c)	satellite of the earth	(iii)	Earth		
	(d)	the planet with rings	(iv)	Jupiter		
	(e)	the most shining planet	(v)	Saturn		
3.	Fill	in the blanks.				
	(a)	The heavenly body nearest th	e to the earth i	S		
	(b)	Our earth is the	largest plane	t in the solar syste	em.	
	(c)	The layer of gases around the				
	(d)	are the celestial	bodies which	revolve around t	he planets.	
4.		ite the names of all the planets o				
5.		me the two planets between wh		s situated.		
6.		y is life not found on the moon?				
7.		at are the lunar phases?				
8.		me the two planets between wh		are found.		
9.	vvn	y is the earth said to be an amaz	ing planet?	Keekedeline		
		Addition	al Questi	ons For Prac	tice	
A.	Mu	Itiple Choice Questions (MCQs) — Tick (✓) tl	he correct option	ns.	
	1.	The universe started with a ve	ery big explos	ion called the		
		(a) galaxy	(b) big ba	ang	(c) Milky Way	
	2.	Clouds of dust and gas in spa	ce are called			
		(a) Ursa Minor	(b) Ursa	Major	(c) Nebula	
	3.	The Sun belongs to the		galaxy.		
		(a) Hedron	(b) Plum		(c) Milky Way	
	4.	The planet closest to the Sun	is			
		(a) Earth	(b) Merc	_	(c) Jupiter	

Scanned by CamScanner

B. Fill in the blanks.

- 1. A galaxy is a group of billions of and of dust and gases,
- 2. Stars are huge heavenly bodies made up of hot
- 3. Groups of stars forming different patterns are called
- 4. Our Earth is surrounded by a blanket of air called the

Write 'T' for true and 'F' for false statements.

- The Earth is the fourth planet from the Sun.
- 2. Venus is the brightest and hottest planet of the solar system.
- 3. Phases of moon are caused due to the revolution of the moon around the Sun.
- Comets are also called shooting stars.

D. Very Short Answer Questions

- 1. Define universe.
- 2. Write the name of the star second nearest to the Earth.
- List the inner planets of the solar system.
- Write one special feature of Uranus.
- 5. What are craters?

E. Short Answer Questions

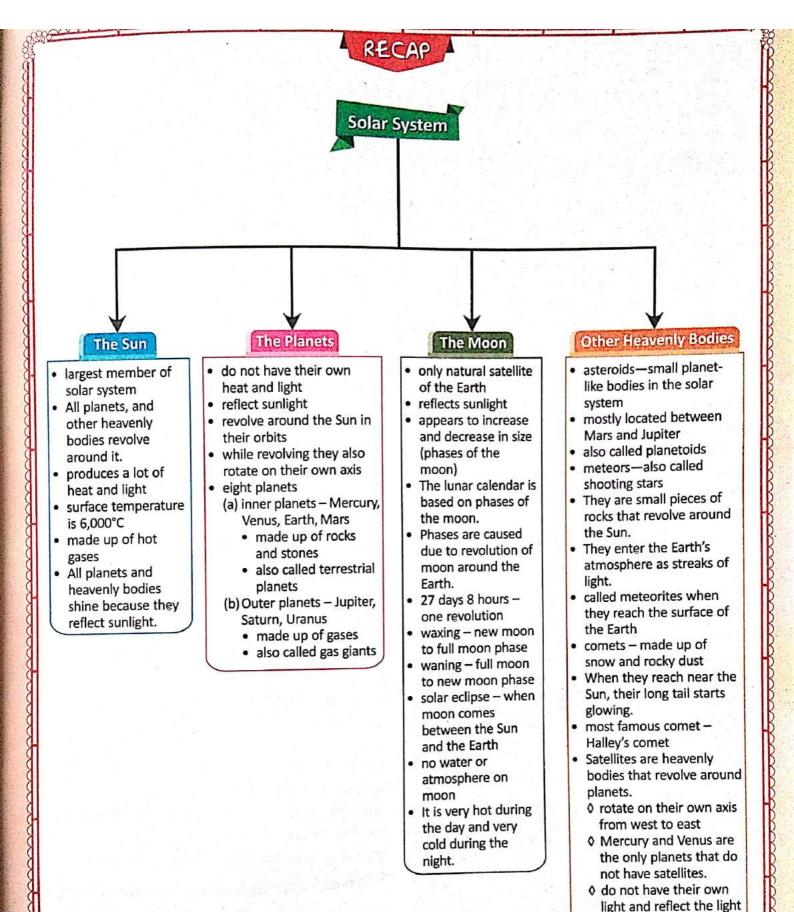
- 1. Write a short note on the formation of the universe.
- 2. What are satellites?
- 3. Which is the most famous comet? What is special about it?
- 4. What are meteorites?

F. Long Answer Questions

- Which planet in the solar system supports life? How and why?
- 2. Discuss the salient features of our planet Earth.
- What are planets? List all the planets according to their distance from the Sun and write one distinctive feature of each.
- 4. (a) What do you understand by the terms 'waning' and 'waxing' of the moon?
 - (b) When does the solar and lunar eclipse occur?

ACTIVITY

- Make a model of the solar system.
- Organise a discussion in class on the topic 'Possibilities Of Human Settlement On The Moon In Future'.
- Draw a solar system and then answer the following questions.
 - (a) Which planet has the most number of satellites?
 - (b) Which planet is the farthest from the Sun?
 - (c) Which planet takes the longest time to complete one revolution around the Sun?



of the Sun



Discovery Of Universe

- • KQY TERMS

people whose job includes travelling and astronauts

working in a spacecraft

astronomical: knowledge or information related to the

I knowledge position of stars and planets

erroneous based on wrong information

l observatories : special buildings from which scientists observe the position of stars, weather, etc.

the use of satellites to search for and collect information about the Earth

electronic devices that are sent to space and satellites that move around the Earth and are used for

communication or for providing information

Use Cordova Smart Class Software on the smart board in class to make learning enjoyable.

remote sensing:

Since ancient times humans have been curious about the universe and hence, continuous research has been carried out on heavenly bodies. These researches have proved many ancient accreditions incorrect and erroneous. Humans have gained knowledge about the solar system and other heavenly bodies since ancient times.

ASTRONOMY-ANCIENT HERITAGE

The time and place of origin of astronomy is still a mystery. It is assumed that astronomy might have been a hobby for some but as time progressed, a



Pyramids

scientific approach developed for this study and astronomy developed into its modern form. It is said that the pyramids of Egypt established the climax of astrology in 2500 BCE. The Great Pyramid of Giza, aligned straight, represents the position of the Pole Star.

It is gathered from sources that astronomical knowledge was developed in the 6th century BCE.

It is estimated that the table of stars was developed in China in the 4th century BCE.

THE DISCOVERY OF THE UNIVERSE

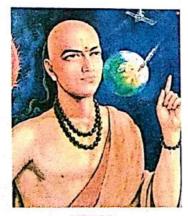
It was in the 4th century BCE that knowledge about space gained importance in Greece. Pluto, Aristotle and Ptolemy were the main philosophers. During that time it was believed that the Earth was the centre of the solar system and that the Sun revolved around it. It was in the 16th century that Copernicus proved that the Sun was the centre of the solar system and the Earth and other planets revolved around it.

Indian astronomers have also contributed towards the discoveries and theories. Aryabhata Varahamihira and Bhaskaracharya II were a few main contributors. It was Aryabhata after whom the first satellite sent into space by India was named.



Copernicus

It is said that he calculated the circumference of the Earth to approximately 24835 miles which is almost equal to the modern calculation of approximately 24901 miles. He also helped people know that the effect of the shadow of the Earth on the moon causes the lunar eclipse.



Aryabhata

In the 3rd century BCE, Eratosthenes calculated the correct circumference of the Earth. Bhaskaracharya II, one of the very famous astronomers, wrote *Siddhanta Shiromani*, an anthology, at the age of 36 years.

He put forth two things:

- The Earth is round.
- It attracts everything towards it.

This is due to a force called the gravitational force.



Bhaskaracharya II

All these facts can be put together to say that Indian astronomers were already propagating truths and theories way ahead of their time. Bhaskaracharya II explained the concepts of Arithmetic, Algebra and Geometry in his books.

Quick Revision

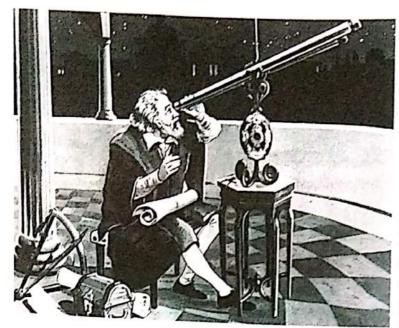
Fill in the blanks.

- The Great Pyramid of Giza represents the position of the
- 2. The first Indian satellite was named after
- 3. calculated the correct circumference of the Earth.
- 4. The Earth has force.

APPARATUS USED FOR ASTRONOMICAL KNOWLEDGE

Telescopes

The telescope is an instrument that helps us observe and watch distant things nearer and bigger. The first telescope was invented by **Hans Lippershey** of **Holland**. However, the telescope which could be utilised to view celestial bodies was invented by **Galileo** of Italy in 1610 CE.



Galileo's Telescope

Today, India, Russia, America, China, France and many other countries have developed telescopes that are larger and more sensitive. The biggest telescope in India has been set up in Udaipur (Rajasthan) in the Fateh Sagar Lake. This Multi Application Solar Telescope, also known as MAST, is utilised for studies related to the Sun.

Telescopes are being connected to computers by scientists for easy and clear study of celestial bodies. A telescope at the Vainu Bappu Observatory in Kavlur (Tamil Nadu), is used for these studies. Scientists have established **Hubble**, a telescope (in 1990), to study the mysteries of space.



Solar Observatory, Fateh Sagar Lake, Udaipur

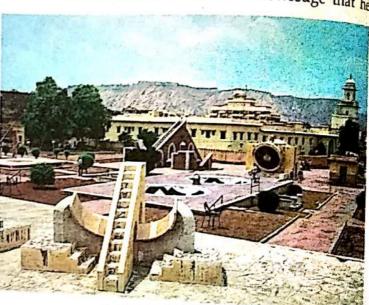
GEOGRAPHY-6

-KNOW More

The Jantar Mantar of Jaipur is a complex of nineteen architectural astronomical instrument ltis still running and being used for calculations at teaching.

Observatories

For space research, observatories are a must. It is believed that it was from Pataliputra and Nalanda that the movement of stars was observed. Our country has many observatories. Sawai Jai Singh had an observatory constructed in Delhi in 1724. This is known as the Jantar Mantar observatory. It was on the basis of the knowledge that he



Jantar Mantar, Rajasthan

collected from China, Babylon and Europe that he had the Jantar Mantar constructed. He had two more observatories constructed in Jaipur in 1734. Besides these Benaras, Ujjain and Mathura also have observatories built there. The observatory in Jaipur is the largest one. Sawai Jai Singh also invented three instruments:

- Samrat Yantra
 I
 - Jai Prakash Yantra
- Ram Yantra

The Samrat Yantra is the biggest and the highest of the three. It is an equinoctial sundial of enormous size. Another unique feature of

this Yantra is that it tells time to a precision that had never been achieved before.

Artificial Satellites And Astronauts

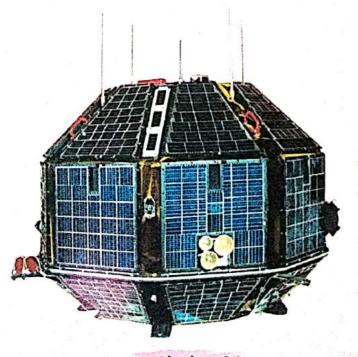
Artificial satellities are bodies sent by scientists into space. These bodies revolve around the Earth and help in research.

Usually any object that goes upwards away from the Earth, falls back due to the Earth's gravitational force. When a satellite is launched through a rocket it does not come back to the Earth. This happens because the rocket is launched with a force greater than the Earth's gravitational force.

---- KNOW More

To escape from the gravitational force of the Earth the velocity needed is around 11.2 km/sec and it is called the 'escape velocity'.

When we launch any object with a velocity less than escape velocity then it does not cross the region of the force of gravitation of the Earth.



Bhaskara 2

These artificial satellites are used for predicting seasons, spying and other Earth related information. These artificial satellites are very important for us.

They predict natural disasters, that is useful in the management of agriculture, forests and water resource planning. Spectrums of telephone, television and radio are transmitted via these satellites.



Yuri Gagarin

Sputnik-1 was the first artificial satellite launched into space by Russia. It was launched in the year 1957 through a rocket. This period witnessed tough competition between Russia and America in space research. The first living being was sent into space in Sputnik II under the Space Research Programme by Russia. This was a female dog named Laika. This launch was not very successful. In the year 1961, four years after the launch of Sputnik II, the first man was sent into space. This man was Yuri Gagarin. He travelled to space in the satellite named Vostok-1.

In 1969, the world was amazed to hear that America had sent three astronauts into space in a spacecraft named Apollo-11. This mission was successful as not only did America complete a successful tour but was also successful in landing two men on



Neil Armstrong

the moon. Neil Armstrong was the first man to place his foot on the moon.

India took the initiative and in 1984, Rakesh Sharma (from Indian Air Force) travelled into space. He travelled in Soyuz T-II along with two Russian astronauts. They performed many experiments while staying there for eight days.





Rakesh Sharma

Kalpana Chawla

Kalpana Chawla was a research scientist and a famous astronaut. She was born in the Karnal district of Haryana in the year 1961. Kalpana Chawla was the first Indian woman and the second Indian who travelled into space. She along with six other associates, met with a tragic end in 2003, as the spacecraft Columbia crashed while returning from space.

-- - KNOW MOTE

Kalpana Chawla was obsessed with aircraft. When children of her age played with dolls she made drawings of aircraft and played with them.

Also, Sunita Williams an American citizen of Indian origin has set a record of spending maximum time in space.

Quick Revision

Tick (√) the correct answers.

- 1. The first was invented by Hans Lippershey of Holland.
 - (a) microscope
 - (b) telescope
 - (c) binoculars
- 2. constructed an observatory, Jantar Mantar, in Delhi.
 - (a) Sawai Jai Singh
 - (b) Akbar
 - (c) Maharana Pratap
- 3. The first living being sent into space was a female dog named
 - (a) Dorothy (b) Laika (c) Peanut

INDIAN SPACE RESEARCH ORGANISATION (ISRO)

The Indian Space Research Organisation is at Indian Government space agency with its headquarters in Bengaluru. Its aim is to harnes



A Space Rocket Launching At ISRO

space technology for national development while pursuing space science research and planetary exploration.

In 1962, the Atomic Energy Department of India set up ISRO under the leadership of the famous scientist **Homi Jehangir Bhabha** in India. Since then, India has made great progress in the field of space science.

The scientist who gave momentum to Indian space research programme for various purposes was Vikram Sarabhai. Today, our scientists have launched and established many satellites in the Earth's orbit. The first artificial satellite of India was Aryabhata which was launched from a space centre, in the then Soviet Union, into space in April 1975. With this India became the 6th country to launch its own satellite. The purpose of this was to study the atmosphere. Since 1975 to this date, India has sent many spacecrafts into space. The main among them are Bhaskara, Apple, Insat, Rohini, IMS-I, EDUSAT, HIMSAT, Cartosat, Resourcesat-I, Oceansat, Moon-craft (Chandrayaan-1) and Mars-craft. With the help of these satellites activities related to broadcast, seasons, telecommunication, environment, remote sensing, mapping, predictions about drought, flood and storm, resource management and many more activities related to defence, public and national interest are being conducted continuously.



Vikram Sarabhai received the Shanti Swarup Bhatnagar Medal in 1962. He was honoured with Padma Bhushan in 1966 and Padma Vibhushan (posthumously) in 1972.

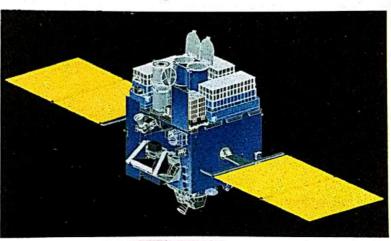
Mars Orbiter Mission

For collecting information on Mars, India launched a spacecraft named *Mangalyaan* also called **Mars-craft**, from Satish Dhawan Space Centre situated at Sriharikota of Andhra Pradesh

in November 2013. It travelled for almost 11 months and in September 2014, entered Mars' orbit. India has become the first country to establish a satellite in Mars' orbit in its first attempt. Likewise, a spacecraft named the Mooncraft (Chandrayaan-1) was launched to the moon in October 2008 to study the moon.

First Space Observatory

After the successful launch of the Mars-craft, India has joined the list of those countries who have their observatories in space. From Sriharikota the first multi-wavelength space observatory **Astrosat** was launched into space in October 2015. This will help to conduct space research programme. Prior to India, America, Russia, Japan and European Union have established their space observatories.

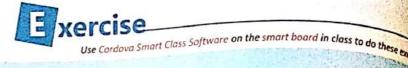


Space Observatory - Astrosat

Quick Revision

Give one word answers.

- 1. The headquarters of ISRO is situated here.
- 2. It was the first Indian artificial satellite.
- 3. The Satish Dhawan Space Centre is situated in this place.
- The first multi-wavelength space observatory was launched in this year.
- This Indian spacecraft was launched to the moon.



1.	Choose the correct options.
	(a) When was India's first artificial satellite launched?
	(i) 1960 (ii) 1975 (iii) 1947 (iv) 1985
	(b) In Rajasthan the ancient Jantar Mantar Observatory is located at
	(i) Udaipur (ii) Kota (iii) Jaipur (iv) Jodhpur
2.	Fill in the blanks.
	(a) Aryabhata was ancient India's great
	(b) The credit of giving momentum to Indian space programme goes to
	(c) The velocity required to escape the gravitational force of the earth iskms/sec
	(d)is the name of the first artificial satellite sent into space by India.
3.	Write the names of the main astronomers of India.
4.	In ancient times from where did the space research begin in the world?
5.	When and why were the pyramids of Egypt made?
6.	Discuss the contribution of Aryabhata to astronomical researches.
7.	What is a telescope? Write about its advantages.
8.	Which mathematician and geographer of Greece calculated the actual girannot
9.	Mention about the main astronauts of the world along with their work.
	Additional Questions For Practice
A.	Multiple Choice Questions (MCQs) ← Tick (✓) the correct options.
1	1. The table of stars was developed in
	(a) Saudi Arabia (b) China (c) India
	2wrote Siddhanta Shiromani.
	(a) Aryabhata (b) Bhaskarachawa II
	(c) Sushrut
	3. Artificial
	(a) Planets (b) Safellites
	was the first man to place his foot on the man
	(b) Visit C
	(c) Neil Armstrong 5. The Atomic Energy Department of Indian
	5. The Atomic Energy Department of India set up ISRO under the leadership of
	(c) Kalpana Chawla (b) Vikram Sarabhai
(30	
30	GEOGRAPHY-6

B. Fill in the blanks.

- 1.proved that the Sun was the centre of the solar system.
- 2. Aryabhata calculated the circumference of the Earth to approximately miles.
- 3. The biggest telescope in India is set up in
- 4. Theis the highest Yantra invented by Sawai Jai Singh.
- 5. was the first artificial satellite to be launched in space by Russia.
- 6. The purpose of Aryabhata satellite was to study the

C. Match the following.

- 1. Mars-craft
- 2. Ptolemy
- 3. Eratosthenes
- 4. Aryabhata
- 5. Rakesh Sharma

- (a) circumference of the Earth
- (b) Soyuz T-II
- (c) November 2013
- (d) Greek philosopher
- (e) lunar eclipse

D. Very Short Answer Questions

- Why are telescopes being connected to computers?
- 2. What is MAST utilised for?
- Which telescope has been established to study the mysteries of space?
- 4. Define artificial satellites.
- Who was Kalpana Chawla?
- 6. What was special about Sputnik II?

E. Short Answer Questions

- 1. Write the two things included in Siddhanta Shiromani.
- 2. Name the three instruments invented by Sawai Jai Singh.
- What is the aim of ISRO?
- 4. List four functions performed by satellites.

F. Long Answer Questions

- 1. Why do artificial satellites never come back to the Earth despite gravitational force?
- Why are artificial satellites important for us?
- Explain the development of the field of Space Science in India.
- 4. Write a short note on the 'Mars Orbiter Mission' of India.

ACTIVITY

- Make a chart for your class showing the major achievements of India in the field of space research.
- Identify and write the names of the following Indian astronomers and scientists.





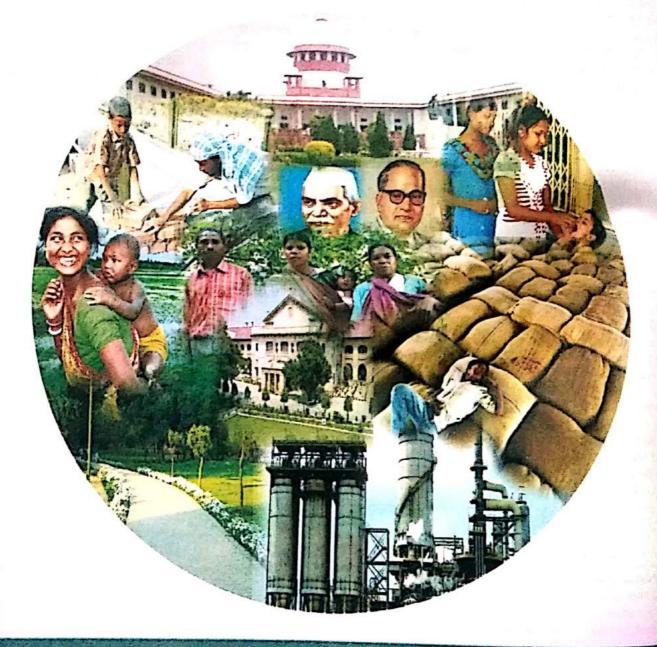




RECAP Discovery Of Universe Main Proponents Astronomy Ptolemy, Aristotle and Pluto were main philosophers. assumed that it might have started Ptolemy, Aristotle and Pluto Well and the Sun was at the centre of the solar system and Copernicus proved that the Sun was at the centre of the solar system and as a hobby also gathered from sources that planets revolved around it. planets revolved around it. Aryabhata, Varahamihira, Bhaskaracharya II were main Indian contributor. Aryabhata, Varahamihira, Bhaskaracharya II were main Indian contributor. astronomical knowledge was Aryabhata, Varanaminira, Britanda Strategical Strategi developed in the 6th century BCE Apparatus Used For Astronomical Knowledge **Observatories Artificial Satellites** Telescopes must for space research instrument that helps us to bodies sent by scientists into space Sawai Jai Singh had revolve around the Earth and help in research observe and watch distant observatory constructed in things nearer and bigger launched through rockets Delhi in 1724 (Jantar used for predicting climate, spying, natural disasters Han Lippershey of Holland useful in agriculture, forests and water resource Mantar). invented the first telescope. had two more Galileo of Italy invented the observatories constructed spectrums of telephone, television and radio telescope which could be in Jaipur used to observe celestial transmitted via these satellites invented three bodies. Sputnik-I was the first artificial satellite launched by instruments -Biggest telescope of India is Russia (1957). First living being was sent in Sputnik-II by Russia. MAST in Udaipur. Samrat Yantra Today telescopes are being in 1961 Russia sent the first man (Yuri Gagarin) into Jai Prakash Yantra connected to computers for space, in Vostok I. Ram Yantra study and research. In Apollo 11 (by America) two men landed on the Vainu Bappu (in Tamil Nadu) used for study Neil Armstrong was the first man to place his foot 'Hubble' established to study on the moon. 1984-Indian astronaut Rakesh Sharma travelled into mysteries of space space in Soyuz T-II. Kalpana Chawla was first Indian woman and the second Indian to travel into space. Space Research Indian Space Research Organisation (ISRO) Mars Orbiter Mission space agency of the Government of India the Mars-craft launched for collecting headquarters at Bengaluru information on Mars Atomic Energy Department of India was set up ISRO (in 1962)

- Atomic Energy Department of India was set up ISRO (in 1962 under leadership of Homi Jehangir Bhabha.
- first artificial satellite of India-Aryabhata
- purpose was to study the atmosphere
- some artificial satellites Bhaskara, Rohini, IRS, EDUSAT, Mooncraft, Mars-craft
- travelled for 11 months and in September 2014 entered Mars' orbit
- Moon-craft was launched to the moon in October 2008.
- First space observatory 'Astrosat' was launched from Sriharikota in October 2015.

PART-II



CIVICS



Our Social Environment

→ KQY TERMS

ethics

integrity

lifestyle

i a group of people who help in running the administrative staff institute or a company

> : moral principles that guide or influence a person's behaviour

> : the quality of being honest and having strong moral principles

: the way of living

practical knowledge : knowledge that can be used to solve day-to-day practical

problems

profession

: a work that a person does to earn

a livelihood

theoretical knowledge: knowledge based only on theory

or written information

Use Cordova Smart Class Software on the smart board in class to make learning enjoyable.

One day, Vikram and Suraj saw an old man who was stuck trying to cross the road, due to the rush of the vehicles. Vikram went to him and teased him asking if he wanted to die. However, Suraj went and helped him cross the road. This value of helping those in need was a reflection of the values he had learnt from his family.

Have you ever shown the way to a blind person or helped an elderly in crossing the road? How many times have you played loud music or fought with your neighbours?

The answers to these questions show whether a person possesses social ethics or not. Man is a social animal and these ethics form an integral part of his everyday routine. As is well-known,

moral education starts at home. In this chapter, we will learn about our social environment.

FAMILY

Family is the smallest unit of ^{a society.} Family is said to be the first school for a child. It is here that a child inculcates qualities of love, affection, A Nuclear Family



kindness, reverence and patience. A child's parents, his siblings and relatives are his first teachers who teach him lessons of cooperation and integrity. Presently, two kinds of families are found in the society.

Nuclear Family

In a nuclear or single family, a child lives with his siblings and parents. It includes a married couple and their children.

Joint Family

When a nuclear family is joined by the immediate uncles and aunts, grandparents and cousins, a



A Joint Family

CIVICS-6

joint family is formed. In a joint family, everybody lives together in a single house.

INTERDEPENDENCE AMONG FAMILY MEMBERS

All the members of a family are dependent on one another. Each family member fulfills some duties and contributes to the family. The elder members, such as parents, uncles and aunts work outside to provide financial stability. The children also help in simple household chores. Thus, family members assist one another to the best of their abilities.

Family members not only provide financial support but emotional stability too. They share happiness as well as troubles. They may have different views and tastes, but they learn to stay together.

Make a list of all the tasks you do at home.

CHANGING FAMILY STATUS

In earlier times, joint family system was prevalent. People lived together and were engaged in the same profession which was passed on from generation to generation.

With the passage of time, the scenario has changed. Nowadays, family members are moving towards other areas in search of occupation, better lifestyle and education. This has given rise to an increased number of nuclear families.

Quick Revision

Fill in the blanks.

- 1.is the smallest unit of a society.
- 2. In a family, a child lives with his siblings and
- 4. Nowadays, there is a rise in the number of ______families.

FILLING THE GENERATION GAP

Joint family provides a positive environment to a child. A child learns basic manners, sharing, respect for others while living in a combined family. Grandparents are a constant source of love affection and morals for the children. In the present times, this rising gap between the elden and the younger generation needs to be covered.

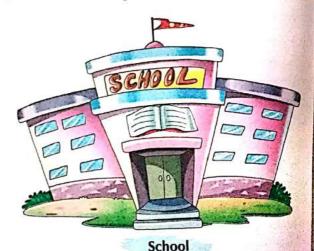
OUR NEIGHBOURS

We live in a society. Apart from our family members, our neighbours also play a vital role in developing our overall personality.

Neighbours are the people who live around us. Good neighbours are a blessing. Neighbours help and support each other during troubled times. They provide emotional, moral and sometimes financial support too. Good and friendly relations need to be maintained with our neighbours.

OUR SCHOOL

The education of a child starts at home and continues in school. Schools are administered by the principal and the administrative staff and the teachers who teach the students. Schools not only provide bookish knowledge but also help in enhancing the academic, co-curricular, physical and overall development of a child.



In a school, every person should be engaged in her/his task. Students should also follow rules and maintain discipline in the school. A school should not only provide theoretical but practical

knowledge also that a child can apply in herst daily life. A school should provide a positive environment to a child.

88

CIVICS-6

OURSOCIETY Our society forms the fourth tier of our Our soundings, after family and neighbourhood. Apart from one's family members and Apart man also interacts with his society. Now, the question arises, what is a society? All the Now, are a round us engaged in different economic,

people social or academic activities form our society.

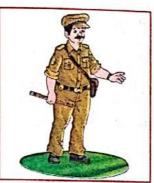




Teacher

Doctor





Farmer

Police





Electrician

Soldier

Every person is engaged in a different profession according to her/his preference and educational level. A farmer grows crops, police maintains law and order, scientists invent things, teachers impart knowledge, a potter makes utensils, a tailor sews

clothes and a jeweller makes jewellery. All these professionals form a part of the society and influence each other. Their combined efforts make our life comfortable and peaceful.

RURAL-URBAN INTERDEPENDENCE

The rural and urban societies are dependent on each other. Farmers grow crops which is then transported to cities where they are turned into finished products in industries. Many industries such as textile and sugar obtain their raw materials from the rural areas such as cotton and sugar cane.

Similarly, finished products such as clothes, sugar, medicines, papers and machines are sold in villages. There is a continuous flow of products and money between rural and urban areas, which makes life comfortable for all.

Without this continuous cycle, both the rural as well as the urban areas will suffer.

CONCLUSION

Society is like the human body wherein every organ works with the cooperation of each other. Similarly, all the members of a society work together in harmony. The social growth of a country depends on the peaceful collaboration between the different stratas of the society, namely the family, the neighbours, the school and the society as a whole.

Quick Revision

Write (T) for true and	(F) for false st	tatements.
------------------------	------------------	------------

- 1. Joint families provide a negative environment to a child.
- 2. Neighbours help and support each other during troubled times.
- 3. The education of a child starts in school.
- 4. The rural and urban society are independent of each other.
- 5. There is a continuous flow of products and money between rural and urban areas.

CIVICS-6

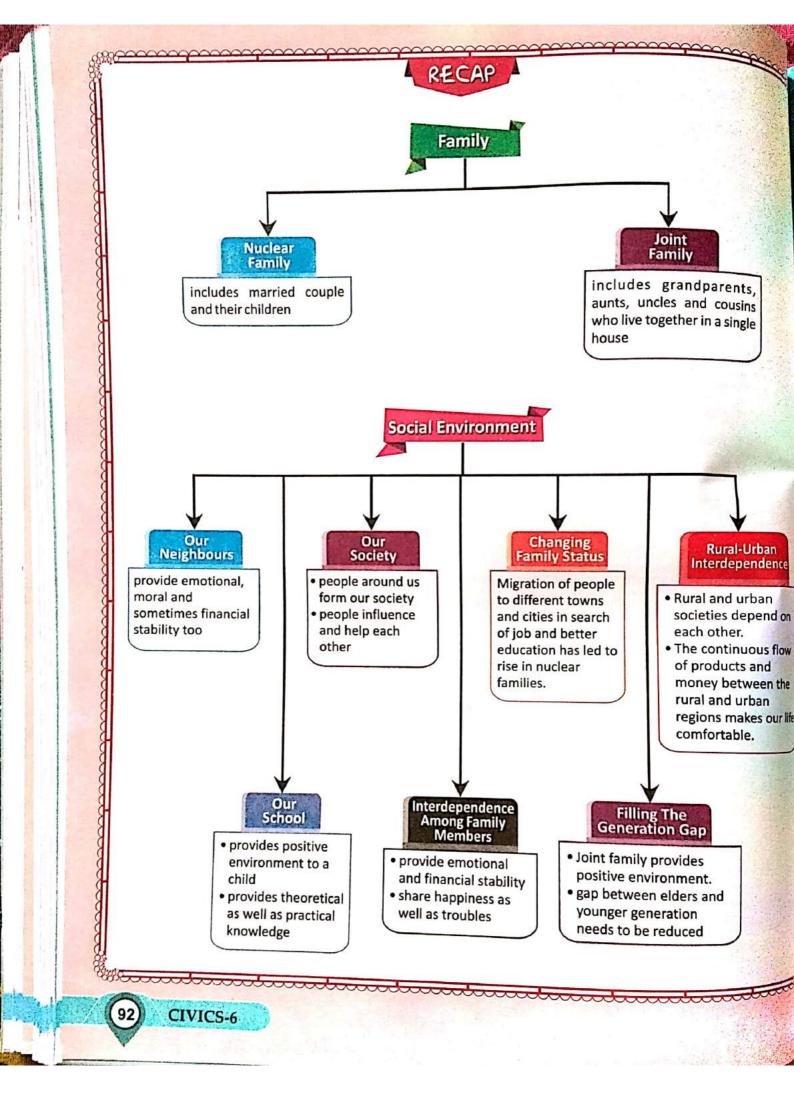


Use Cordova Smart Class Software on the smart board in class to do there

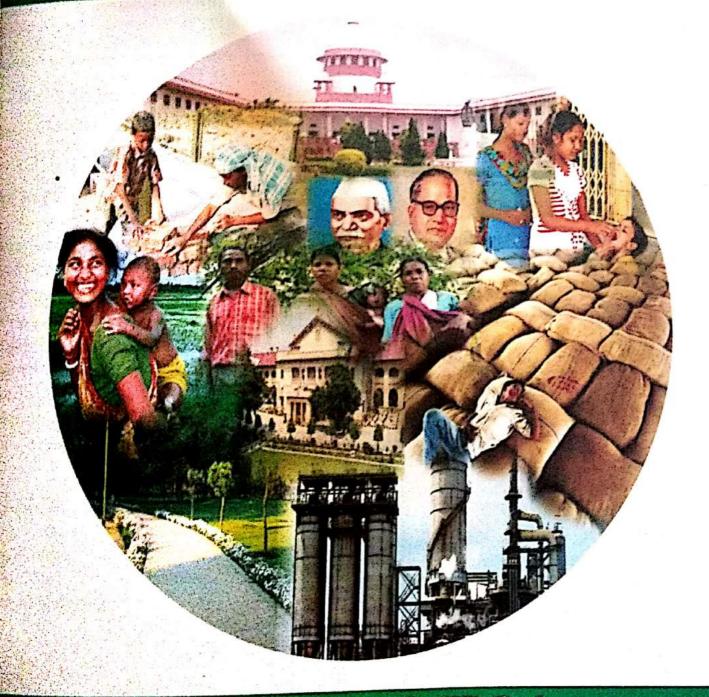
1.	Select	ct the correct options.	e exe
	(a)	Our first school is our	
		(i) family (ii) school	1
		(iii) society (iv) neighbour	
	(b)	The smallest unit of a society is the	
		(i) school (ii) hospital	
		(iii) family (iv) caste	
	(c)	The closest to us after our family are	
		(i) relatives (ii) neighbours	
		(iii) friends (iv) employees	
2.	What	t does one learn from a family?	
3.	What	t is the difference between a nuclear family and a joint family?	
4.		t advantages do we get from the elders in the family?	
5.	Why a	are our neighbours important to us?	
		Additional Questions For Practice	
A.	Multip	ple Choice Questions (MCQs) — Tick (✓) the correct options.	
	1. Fa	amily members provide financial support as well asstability.	
	(a)	a) ethical (b) usual (c) emotional	1
	2. Go	ood neighbours are a	THE STATE OF
	(a)) curse (b) blessing (c) problem	Γ
	3. All	I the professionals form a part of the	
	(a)	country (b) society (c) family	Г
	4. Soci	ciety is like thebody.	
	(a)	human (b) political (c) civil	
	Fill in the	ne blanks.	集
	1. Fan	mily is said to be the first of a child.	
1		ools are administered by the and the administrative staff.	
3		od andrelations need to be maintained with our neighbours.	
4		chool should not only provide theoretical butknowledge also.	
5		the members of a society work together in	1
	TOTAL		
	VET AIR	C5-6	1

		그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
		e 'T' for true and 'F' for false statements.	
с.		Ethics form an integral part of man's routine.	
	1.	The finished products from industries are sold in villages.	
	2.	Family members are independent of one another.	
	3. 4.	Schools help in the overall development of a child.	
	4. 5.	Every person of the society is engaged in the same profession.	
	6.	Industries obtain raw materials from rural areas.	
	verv	Very Short Answer Questions	
•	1.	Which family system was prevalent in ancient times?	
	2.	How can grandparents create a positive environment for the children?	
	3.	What kind of support is provided by neighbours?	
	4.	Where does the education of a child start?	
	Shor	Short Answer Questions	
	1.	On what does the social growth of a country depend?	
	2.	How are good neighbours a blessing?	
	Long	Answer Questions	
	1.	How can a school frame the future of a child?	
	2.	What does rural-urban interdependence mean?	
	3.	Explain the role of society in making our lives comfortable and peaceful.	
	4.	How has family status changed over the passage of time?	
TIVITY			
	Prep	are a table of all the professionals of your locality and also find out how they are	

- Paste pictures of your family members in a scrapbook. Write their names and professions as well.









artefacts	 objects of different kinds made by humans in the past
bhojpatra	dried barks of birch trees or palm leaves used for writing in the past
citadel	: a structure built typically on a high ground to protect it from attacks

: a storehouse for grains

inscriptions

written records, engraved on stone table other hard surfaces which provide imponent information about the kings and their rule

pressure flaking: a method of trimming the edge of a slope

: the period when humans depended to Stone Age stone tools for their survival

Use Cordova Smart Class Software on the smart board in class to make learning enjoyable.

WHAT IS HISTORY

I granary

We often look at our photo albums to know about the past events of our families. Similarly, when we want to know about the past events of our society or country, we flip through the pages of history.

Thus, history is the study of the past and the people who study the past are called historians.

History provides us information about our rich past - how people lived, what they ate, what they wore, what types of houses they built and many other things. It also tells us about the changes that took place since humans first appeared on the Earth till date. Therefore, history is the window into the past and is the key to understand the present.

Division Of The Past

The past has been divided into prehistory and history.

Prehistory	History	
 writing was not invented written records were not available Example—Stone Age 	 writing was invented written records were available Example – Mauryan Empire 	

How Do We Know About The Past

There are several ways to learn about the past. One can search and read books that were written long ago. These are called manuscripts. These were written on bhojpatras, the dried barks of birch trees and on palm leaves. One can also study inscriptions. These were written on stones or metals.

गणिकायनमः॥ १०३मः। व्यान्तं। द्वि। पुरः शति। यसमारिक नरंग्लक्यातमंग्रङ्गानः। प्रकारः। नर्षिकाः। प्रमाननामन आ। इहा बहरित्। अधिनना रुपि। अन्तवत् । वीषे। एवः । दिः विश्व ब्रानमंग अन्त्यं भ्यतं । अञ्चरं विश्वतः पृत्विम् गावातातात् तु व्यानः हाता कवि अतुः सत्यः। चित्रअवः तनः ॥देवः देवे क भायत् अंगाराष्ट्रचे त्रं अर्थि महे करियासी मत्रे मत्रे उपाता अन्ता द्वादिक दीषात्रस्तः। विया वर्षे । नर्मः। निताला ति अप्यराणी भाषा अन्तर्य । हार्द्रावं ॥वर्षमानं साहम ॥सानामा विकारी मुख्यायनः भन्तास्वतानः सुस्तये। शामाप्तिका

A Vedic Manuscript

We can also learn from the remains of the past sud as monuments, tools, fossils, pottery, coins, weapons and other artefacts. These are studied by people called archaeologists. Their study is a account of what might have happened in the past on the basis of these artefacts.





the past from manuscripts, ne participated that period Theory incorporate of that period. These are called the of history. By studying them, historians and archaeologists tell us about the past.

Sources are divided into two broad groups, i.e., mhaeological sources and literary sources.

SOURCES OF HISTORY ARCHAEOLOGICAL LITERARY - religious -inscriptions - secular - monuments

Archaeological Sources

- artefacts

Archaeological sources are direct evidences as they are physical evidences. They have a senificant effect on the writing of history. They cannot be changed or altered by human beings.

Coing They give information about the reign of theking and the extent of his empire, i.e., the areas miled by the kings. Sometimes, they carry the date of accession or death of a ruler. They carry names and images of the rulers. Coins also tell us about the trade activities, art and religion that flourished during a particular age. The metals used to make coins tell us about the level of scientific advancement of that age.



Inscriptions: The rulers engraved royal orders on fods, pillars, copper plates and clay tablets. These alled inscriptions. The Ashokan edicts are the of the most important inscriptions of India. they are written on stone pillars and rocks. They help in writing the history of the Mauryan Period.



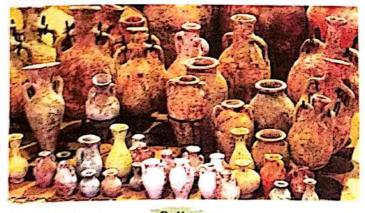
An Ashokan Edict

Monuments: Temples, mosques, palaces, forts and other structures that were built for some special purposes are called monuments. They give information about the artistic skills and the occasions on which they were built. For instance, the ruins of Nalanda University in Bihar reveal the ancient system of education.



The Ruins Of Nalanda University

Artefacts: Toys, jewellery, weapons, tools, pottery and sculptures made and used by humans in the



Pottery

past are called artefacts. By studying them, historians tell us about the lifestyle of early humans, the arts they had mastered, their social and economic conditions, and their trade relations in different parts of the world.

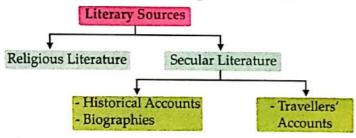
Quick Revision

Give one word answers.

- 1. Which sources of history are direct evidences?
- 2. Which edicts are one of the most important inscriptions of India?
- 3. What were manuscripts written on?

Literary Sources

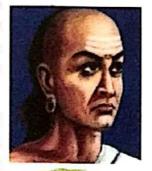
Literary sources refer to the written records of the past. The oldest literary sources are handwritten documents called manuscripts. Before the invention of paper, people wrote on dried barks or leaves, rocks and stones. Literary sources are divided into two parts - religious and secular.



Religious Literature: Literature that deals with

religion is called religious literature. For example, the Vedas, the Tripitakas, the Angas, the Quran, the Bible and many more.

Secular Literature: The literature that does not deal with religion is called secular literature. Secular literature



Kautilya

includes historical accounts and biographies.

Mudra Rakshasa, a play written by Vishakhadatta, tells us how Chandragupta, with the help of Chanakya, overthrew the unpopular Nandas. This helps us conclude that people

- revolted against unpopular kings and even replaced them successfully with better rulers
- Arthashastra, written by Kautilya, gives detailed information about the Mauryan

Travellers' accounts are also included in secular literature. A number of foreign travellers, who visited India from time to time, have left written accounts of their travel which act as important sources of information in understanding the past of the country.

Megasthenes lived in India as the Greek ambassador in the court of Chandragupta Maurya. He wrote Indika.

From these sources, we come to know about the life of the people in the past.

Family Tree

A family tree consists of information of important events right from the birth of a person to death, This was a tradition that developed in the past. A family tree writer used to capture the important events through writings and store them in the form of ledgers. This provided valuable information about families that ruled kingdoms and the different religious beliefs they followed.





Some communities such as Rao, Bhatt, Barot, Jaga, Purohit, Ranimanga, Helwa and Panjikar record every detail about their patrons, who were called yajmans, in their ledgers.

THE LIFE OF EARLY HUMANS

The life of early humans was very difficult. They did not know how to produce food grains and build houses. They were always under the threat of wild animals.

They defended themselves by hiding in caves of climbing on trees. Sometimes later, they began killing animals by weapons and tools made of stones, since stones were easily available. These were found in a large number of caves and places

where early humans lived. We know a lot about where early humans through these stone tools and early numbers. This phase of early humans is beearly humans is known as meapons. This phase of early humans is known as meapons. The Stone Age is divided in weapons. The Stone Age is divided into three the stone on the basis of the development of the Stone roots on the basis of the development of sub-periods on the basis of the development of different stone tools.

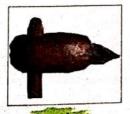
Palaeolithic Age or Old Stone Age Mesolithic Age or Middle Stone Age Neolithic Age or New Stone Age



Major Sites Of Early Humans In India

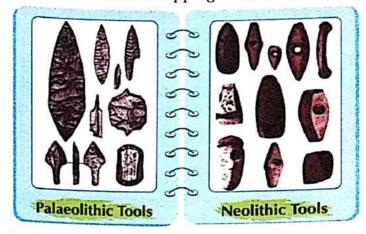
Making Of Stone Tools

hitially, early humans searched for stones which could be used as tools, but later on they started making tools on their own. Flint was largely used to make tools as



Hand-axe

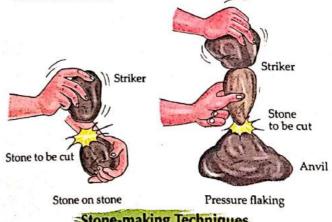
tould easily be chipped to get the desired shape. The main tool of this period was a hand-axe. It was used to cut or chop animals and trees. Therefore, it known as a chopper. The stone tools were used for cutting trees, killing and skinning animals and also for chopping meat.



Techniques Of Making Stone Tools

Probably, two different techniques were used to make stone tools.

- Stone on stone: The stone out of which a tool was to be made (called core) was held in one hand. The second stone which was used as a hammer, was held in the other hand. The hammer stone was used to strike off flakes from the core stone till the required shape was obtained.
- Pressure flaking: The core was placed on a firm surface. It was struck using the hammer stone to remove flakes in order to shape the core into a tool.



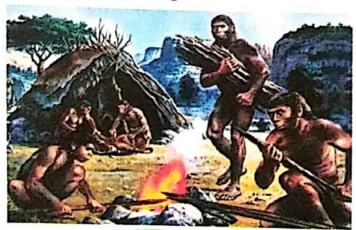
Stone-making Techniques

Over a period of time humans learnt to cut wood with the help of stone tools. They then learnt to make wooden handles for their tools and used them properly. Tools now became more advanced than earlier tools. They sparkled due to polishing.

Hard handles were fixed on them. Bones were used to make needles and blades. Some of the tools of this period are axes, sickles, spears and arrow heads.

Discovery Of Fire

During the Palaeolithic Age, early humans learnt how to light fire. Perhaps, two stones were rubbed together, and accidentally the sparks fell on some dry leaves lying nearby that gave a clue about how to ignite fire. The discovery of fire helped them in many ways. Early humans used fire to scare away wild animals and keep themselves warm in winters. Later, they came to know that the flesh of animals tasted better when heated on fire and thus, they learnt cooking.



Early Humans Using Fire

--- KNOW More

You will be surprised to know that 99 per cent of human history is covered by the Palaeolithic Period. It is subdivided into three parts on the basis of stone tools used and changes in the climate. These are:

- Lower Palaeolithic
- Middle Palaeolithic
- Upper Palaeolithic

During Lower Palaeolithic period, many parts of the Earth were covered heavily with ice and the climate was extremely cold. Therefore, it is also called the 'Ice Age'. During Upper Palaeolithic Age, the climate changed drastically, from cold, and became warm. Climate of the world changed around 12,000 years ago. Due to this change, grasslands developed and it increased the number of animals that survived on grass, for example deer, sheep, cattle, antelopes and goats.

Quick Revision

Fill in the blanks.

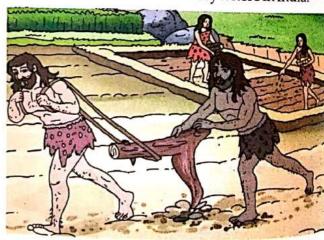
- 1. gives information about
- 2. Stone on stone is a making technique.
- 4. Early humans used to scare away animals.

The permanent settlement of the early humans started with the following discoveries:

- Beginning of agriculture
- Domestication of animals
- Invention of the wheel
- Pottery Dress

Beginning Of Agriculture

Early humans learnt the techniques of cultivation in the Neolithic Age. Perhaps, they learnt this accidentally. They might have seen that when seeds fell on the ground and received water, they grew into plants. The first cereals to be cultivated were wheat and barley. Sickles of Neolithic farmers have been found everywhere in India.



Farming By Early Humans

Agriculture was the greatest discovery. It changed their lifestyle completely. They could settle at one place and grow crops. They left their nomadic life and started leading a settled life. They made mud houses near the fields. Families came into

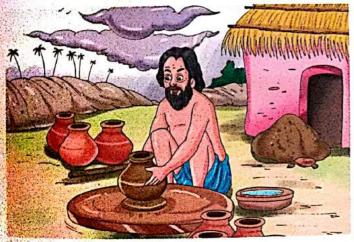
existence, that changed into tribes and villages over a period of time. In this way, the foodgatherers and hunters became settled farmers.

Domestication Of Animals

Early humans began domestication of animals. Animals proved to be helpful for humans in several ways. Dog was the first animal to be tamed. It was useful as a guard and companion. Later, sheep, goats and cattle were also domesticated. They provided milk and meat. The wool and skin of animals were used for clothing in winter season.

Invention Of The Wheel

The Neolithic Period also saw the invention of the wheel. We have little knowledge about how the idea of a wheel occurred to the early humans. Perhaps, a rolling log or stone gave them the idea. They could travel, move heavy loads quickly and in an easier way than before because of the wheel. In fact, today, our life revolves around the wheel.



Early Human Making Pots-

Pottery

The wheel also improved the art of pottery. It is during this period that the potter's wheel came into existence.

Earthen pots were needed to store grains till the next cultivation season. They were also used to store milk, water Neolithic Pottery



and cook food for daily use. Perhaps, at first, they

wove large baskets from wild grass and stored the grains in them. Later, they plastered the baskets with clay and baked them to make them waterproof. Clay pots were also used for cooking food.

Dress

The wheel was also used for spinning and weaving. Early humans began to use cotton and wool to make clothes besides using animal skin, leaves and barks. Cotton cultivation started during this time. Now humans started satisfying their needs. They started worshipping nature. Thus, they progressed from Prehistoric Age to Copper Age.

Quick Revision

W	rite (T) for true and (F) for false statements.
1.	The discovery of agriculture was accidental.
	The first animal to be tamed was sheep.
3.	Early humans could travel more quickly
	with the discovery of wheel.
4.	Earthen pots were used to store water.
5.	Clay pots were used to cook food.
6	Farly humans were clothes made of leaves

SINDHU-SARASWATI CIVILISATION

and tree barks in the Neolithic Period.

As humans began to settle down in permanent settlements, small villages grew up in many places. Most of these settlements developed in places where there was a continuous supply of water. Humans had started agriculture. Some people began to produce more than they consumed. The surplus produced was exchanged with other essential things, with people who could not produce enough for themselves. This was the beginning of the barter system.

Gradually more and more people began to settle in villages. The population grew and villages developed into towns and then cities. People became civilised and civilisations grew up.

One such civilisation developed in the plains of Sindhu and Saraswati. Excavations in 1922 at Harappa and Mohenjo-daro brought into light the existence of these civilisations. As excavations commenced many more such places were discovered.

Places Of Importance In Sindhu-Saraswati Civilisation

The Sindhu-Saraswati Civilisation is often referred to as **Harappan Civilisation**. This is so because the things found during excavations are very similar to those found in Harappa. Since this civilisation grew on the banks of River Indus, it is also known as the **Indus Valley Civilisation**.

The extent of this civilisation was vast. It spread across Sindh, Baluchistan, East and West Punjab, Uttar Pradesh, Gujarat and Northern Rajasthan. It is estimated that this civilisation existed from 4500 BCE to 2500 BCE.



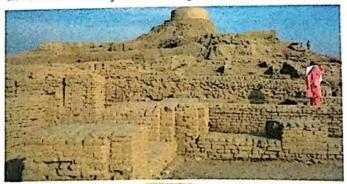
In the beginning, it was believed that the Harappan Civilisation was limited to a small area along River Indus. Further excavations suggested that it was spread over large parts of present-day Pakistan and the Indian states of Haryana, Uttar Pradesh, Punjab, Gujarat and Rajasthan. A number of sites have been discovered in these places:

Chanhu-daro, Kot Diji and Amri (all in Pakistan), Ropar (Punjab), Banawali (Haryana), Alamgirpur (Uttar Pradesh), Kalibangan (Rajasthan), Lothal, Rojdi, Dholavira, Rangpurand Gola Dhoro (all in Gujarat).

SPECIAL FEATURES OF THE CIVILISATION

Town Planning

The planned layout was the most impressive feature of all the Indus Valley cities. The cities were divided broadly into two parts – the citadel and



The Citadel

the lower town. The structure built on a raised ground was called the citadel. It was surrounded by baked brick walls to protect it from floods, it was probably inhabited by the ruling class comprising priests and rich merchants. Outside the citadel at a low height was the lower town, it was larger than the citadel. Common people like craftsmen, labourers and merchants inhabited the lower town.

The Citadel - Main Buildings

In some cities, special buildings were constructed in the citadel area.

The Great Granary: In the citadel of Harappa, the most remarkable building was the Great Granary. It was used to store surplus grains probably to be used during famines or floods. The granaries here were arranged into two rows of six each. A circular working platform was used for threshing grains. A similar granary was found in Mohenjo-daro. All granaries were located close to the riverbank. Rivers were the best means of transporting food grains on boats from one place to another. It was cheap, required less time and labour.



The Great Granary Of Harappa

The Great Bath: In Mohenjo-daro, a special tank called the Great Bath was discovered. This Great Bath was probably used for bathing on special occasions. It was lined with layers of baked brids and was made watertight. Water was probably brought in from a well and drained out after use

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The winning pool with multiple entrances and dressing rooms around the central pool.



The Assembly Hall or Town Hall: Another important structure found in the citadel area, in Mohenjo-daro, was the Assembly Hall or Town Hall. It was a large hall consisting of twenty pillars of baked bricks which were arranged into four rows of five each. It might have been used as a meeting place for a large gathering to discuss important issues or as a prayer hall.

The Plan Of The Lower Town

The lower town was built with a very beautiful plan. The main roads were 8-10 metres wide and ran parallel to each other. The smaller roads crossed the main road at right angles and divided the city into rectangular boxes. This reminds one of the designs of modern towns.



The Lower Town

Most of the buildings in the lower town were residential quarters. The houses were one or two storeys high and built of baked bricks. Most houses had a central courtyard, around which rooms were constructed. The windows opened into the courtyard where all household activities took place. The hearth was normally made in a sheltered corner of the courtyard.

Every house had a bathing area along with a well. Terracotta drain pipes were used for draining water from the roof. The main entrance opened into lanes and not the main street to keep out dust.



Mohenjo-daro Drainage System

Drainage System

The drainage system of the Indus Valley Civilisation is regarded as the best example known to the ancient world. Drains were built on both sides of the road and were connected with each house. They were covered with baked bricks; wooden traps were also fixed to check the passing of solid waste. Each house had its own soaksystem. It helped to collect all the sediments. It allowed only the water to flow into the drains.



Our present-day drainage system in metropolitan cities bears a striking resemblance with the Indus Valley Civilisation drainage system. We too have drains along the sides of the roads, manholes at regular intervals, sloping bathroom floors and other similar features of the Indus drainage system.

Quick Revision

Fill in the blanks.

- The Harappan Civilisation was founded on the banks of River
- 2. The Indus Valley cities were divided broadly into two parts - and
- 3. The special tank in Mohenjo-daro is called the Great
- 4. Most of the buildings found in the lower town were quarters.

Dockyard

A bricked dockyard was found at Lothal. It was connected with a channel to the Gulf of Cambay (Kambhat). The dockyard was probably used for making and repairing ships. This shows that the people were involved in foreign trade, perhaps with the Mesopotamians.

RUINS OF SINDHU-SARASWATI CIVILISATION

Artefacts found in the excavation of Sindhu-Saraswati Civilisation give us an idea about the lifestyle of the people living there at that time. The ruins depict a developed civilisation.

DECLINE OF THE CIVILISATION

The Indus Valley Civilisation lasted for around 1000 years. Its decline began around 1500 BCE. Research is still continuing to find the exact reasons of the weakening and ultimate collapse of this civilisation. Some of the most discussed views are:

- Destruction caused by natural disasters such as floods, earthquakes, or changes in the path of River Indus might have led to the end of this civilisation. Evidence of devastation caused by floods has been found at Mohenjodaro and Lothal.
- Some scholars say that an attack by a more superior foreign tribe like the Aryans may have led to the end of the Indus settlement.
- Changes in climatic conditions or a sudden

change in the course of the River Indus might have led to the reduction of agricultural production. Eventually, people might have migrated further east in search of more favourable living conditions.

Changes were very clear and affected all the cities of the Harappan Civilisation.

Although we do not know the actual reasons of the decline of the Sindhu-Saraswati Civilisation, we know it had a great impact on the people of the later periods.

CONTEMPORARY CIVILISATIONS

Other civilisations also developed on the banks of various rivers at other places in the world. Some of these civilisations are considered contemporary with Sindhu-Saraswati Civilisation by experts. These are:

- · The Nile River Civilisation of Egypt: This civilisation flourished in north-west Egypt in Africa on both the banks of the River Nile.
- The Dajla-Farat Civilisation of Mesopotamia: It flourished in the Doab of present day Iraq, on the banks of the Dajla and the Farat rivers. The Sumerian, the Babylonian and the Assyrian civilisations also developed in this region.
- The Hwang-Ho Civilisation of China: In the lower plains of the Hwang-Ho river, where fertile clay loam soil was found, this civilisation developed.

PLACES OF ARCHAEOLOGICAL IMPORTANCE IN RAJASTHAN

Kalibangan: During the year 1961, excavation of two sand dunes in Kalibangan in Hanumangarh district provided remains of articles of pre-historic period. Articles found in excavation on the banks of River Ghaggar are similar to the Harappan Civilisation.

Ahad: Ahad was situated on the banks of River Bedach in Udaipur. It is also known as the copper town. Excavation was carried out on the eastern side

hillocks of this habitation and remains of utensils of hillound stone, copper and earthen pots were found.

Gilund: Remains similar to those found in Ahad were found in excavations at Gilund. Both Ahad were found are considered a part of the Ahad and Gilund is situated about the Ahad and Gilund is situated about 95 km north of Udaipur in Rajsamand.

Bagore: Bagore is situated on the banks of Kothari river at Bagore in Bhilwara district. Stone Age and Copper Age articles were found here.

Balathal: This is an extension of the Ahad Civilisation. It is situated 42 km in the east of Udaipur. Stone and Copper Age utensils, statues and other remains were found there.

Noah: Artefacts made of copper and bones and iron axes were found here. They are said to be of the Copper Age.

Chandrawati: This was the capital of the Parmar dynasty. Ongoing excavations at Chandrawati near Abu road have provided knowledge about people's life, lifestyle and other activities during the medieval period. The ruins of fort and godowns have also been found.

Pachhamata: During the excavation in Pachhamata, remains similar to Ahad have been found. Pachhamata is 100 km from Udaipur. This is an important place in the Ahad-Banas Civilisation. Embellished jars, bangles of oyster shells and green stones, earthen pots and big furnaces have been found here.

Ganeshwar: Ganeshwar is on the banks of River Kantali in Sikar district. Articles of Copper Age have been excavated here.

Bairath: This place is situated in Jaipur district. It has been a very developed place during various eras. It was the capital of Matsya region during Mahabharata period. Stone plaques of Samrat Ashoka's period have also been found here.

Rajasthan has many Harappan and pre-Harappan period places like Karanpura, Bijnaur and Tarkhan wala Dera. Almost 100 archaeological places have been identified out of which excavations at only 6 places have been done till now.

Quick Revision

Fil	l in the blanks.
1.	was situated on the banks of
	River Bedach.
2.	Gilund is situatedkm from
	Udaipur.
3.	is an extension of the Ahad
	Civilisation.



The state of the s	
Choose the correct answers. a) First excavation of Indus Valley Civi (i) Mohenjodaro (iii) Kalibangan b) How old is Indus Valley Civilisation (i) 2000 years (iii) 2500 years	(iv) Lothal
What are the sources of knowing history? How did primitive human beings live? What were the principal arms and tools of p What were the reasons of the development	primitive human beings? of civilisation in the plains of river banks? HISTORY-6

- 6. What are the important places of Indus Valley Civilisation? 7. Illustrate the town planning during Indus Valley Civilisation. Write brief comments on world civilisation contemporary with Indus Valley Civilisation 8. Which are the important archaeological places of Rajasthan? Describe. 9. Activity 1. Collect photos of archaeologically important places of Rajasthan. Collect stones of different shapes and think if any tool can be made from them. Prepare some tools 2. and exhibit them. **Additional Questions For Practice** A. Multiple Choice Questions (MCQs) — Tick (✓) the correct options. 1. Stone plaques of Samrat Ashoka's period have also been found here. (a) Ganeshwar (c) Noah (b) Bairath 2. Mudra Rakshasa is a play written by (a) Vishakhadatta (c) Kalidasa (b) Tulsidasa 3. The Stone Age was divided intosub-periods. (a) four (b) three (c) five 4. was the capital of the Matsya region during the Mahabharata period. (a) Bairath (b) Ahad (c) Balathal The Town Hall was found in the area of Mohenjo-daro. 5. (a) citadel (b) lower town (c) great granary В. Fill in the blanks. 1. is the study of the past. Old buildings which have historical importance are called 2. Invention of the gave rise to pottery. 3. The Great Bath was probably used for bathing on special 4. was the capital of the Parmar dynasty. 5.
 - C. Write 'T' for true and 'F' for false statements.
 - 1. Coins are a valuable source of information.
 - 2. Indika was written by Kautilya.
 - Pressure flaking was a method of tool making.
 - 4. The Indus Valley Civilisation had a remarkable drainage system.
 - D. Very Short Answer Questions
 - Who studies history?
 - 2. What are artefacts?

Name the two places which are considered to be a part of the Ahad Civilisation.

What is a citadel?

What was many years did the Indus Valley Civilisation last?

short Answer Questions Write a short note on the literary sources of history.

What is secular literature?

Why is Bairath an important archaeological place in Rajasthan?

Why was Harappan Civilisation also known as Indus Valley Civilisation?

Who lived in the lower town of the Harappan Civilisation? 4.

Long Answer Questions

- Discuss how the following have a significant effect on the writing of history.
 - (a) Coins
 - (b) Monuments
- Write a note on the drainage system of the Indus Valley Civilisation.
- ${\it Explain the techniques of 's tone on stone' and 'pressure flaking' of tool making.}$ 3.
- Write about two special buildings of the citadel area. 4.
- $Name\ and\ write\ about\ any\ three\ places\ of\ archaeological\ importance\ in\ Rajasthan.$

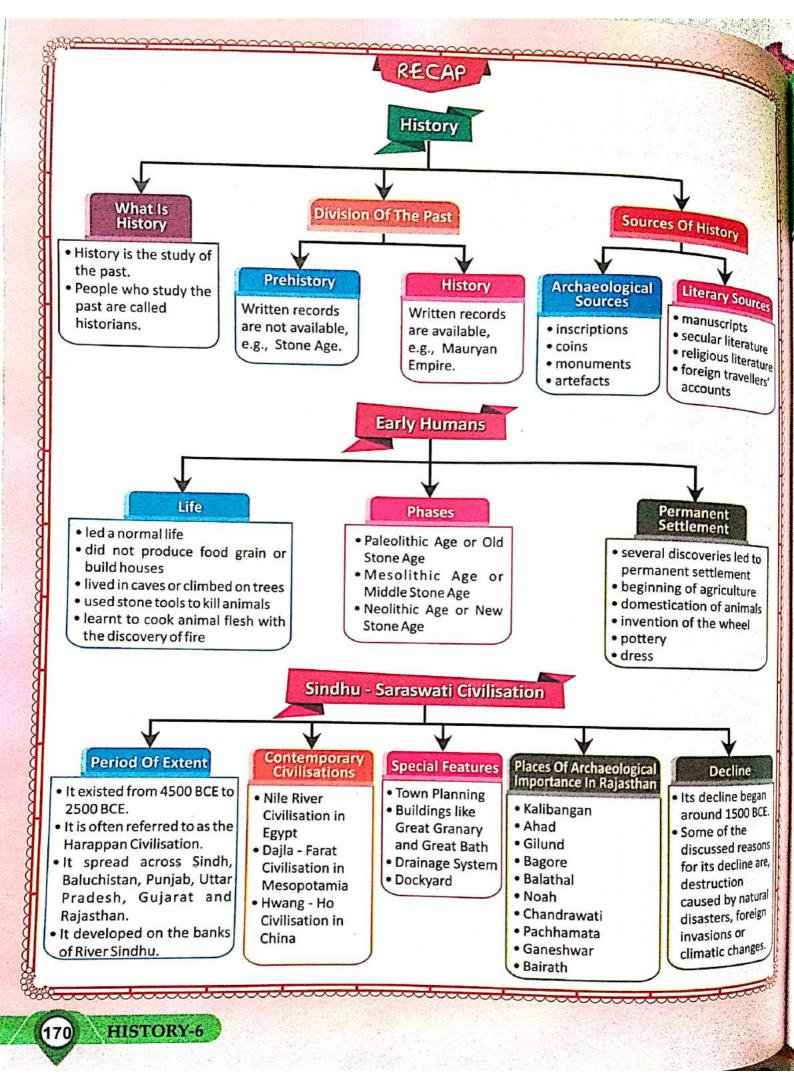
ACTIVITY

3.

Make a clay pot and decorate it.

Muneed clay, ruler, newspaper and an old hand towel.

billout long snakes of clay and make a coil pot and smoothen it from outside with the help of a ruler. Dry tinthe Sun, then colour and decorate it.





epics

I gurukul

Vedic Gulture And Civilisation

KAY TERMS

caste : divisions of traditional Indian social system

: longpoemslikethe Mahabharata and the Ramayana

: residence of the teacher (guru) where students get

education

hereditary : passed from one generation to the next; literally

means'by birth'

rituals tradition

varna

: long running religious routines

: thought or behaviour passed on from one

generation to another

tributes : something that you say, give or do to show respect

or affection for someone

used to describe castes in India

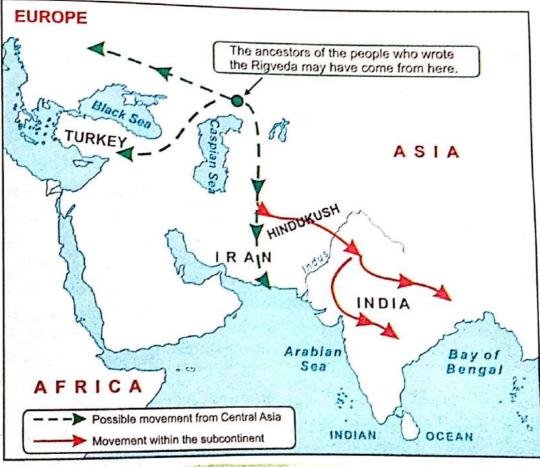
Use Cordova Smart Class Software on the smart board in class to make learning enjoyable.

The period that started in 1500 BCE and continued upto 600 BCE is known in history as the Vedic Civilisation. This is the earliest civilisation in India to have written records. It is named after the Vedas, the literature of Aryans. The four Vedas are — Rigveda, Yajurveda, Samaveda and Atharvaveda.

- The Rigveda: It is the oldest among the four Vedas. It teaches how one can lead a comfortable life with nature. The Gayatri Mantra is a part of the Rigveda.
- The Yajurveda: It was written after the

Rigveda. It is written in the form of prose and poetry. It consists of *shlokas* and *mantras* spoken during religious ceremonies.

The Samaveda: Some parts of the Samaveda were influenced by the Rigveda. Music and dance are of importance in the writings of the



Routes Of Migration Of Aryans

Samaveda and it is said that Indian music had originated from it.

 The Atharvaveda: It teaches us about the wellbeing of human beings and treatment and cure from various diseases.

SOURCES

Our main source of information about the Aryans are the Vedas. 'Veda' is a Sanskrit word derived from the root word *Vid* that means 'knowledge'.

Therefore, the word 'Veda' means 'knowledge'. All the four Vedas are written in Sanskrit and contain hymns in praise of various gods and goddesses. However, in the last few decades, many archaeological evidences have also been found. The history of Vedic Civilisation is written by combining both the sources.

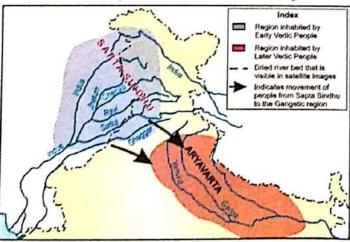
The Vedic Civilisation is divided into two periods:

- Early Vedic Period (Brahmavarta) (1500 BCE 1000 BCE)
- Later Vedic Period (Aryavarta) (1000 BCE 600 BCE)

SETTLEMENT

In the Early Vedic Period, Aryans settled in the area called 'Sapta Sindhu' (the land of seven rivers). The area of seven rivers was formed by River Indus and its tributaries. The earlier settlements were confined to the valleys of River Sindhu and its tributaries. In the Later Vedic Period, they moved eastwards and settled in the Ganga-Yamuna plains. They called it 'Aryavarta' (the land of the Aryans).

Most historians believe that the original home of Aryans was in Central Asia around the Caspian Sea. They also believe that Aryans led a pastoral life. Cattle, sheep and horses were central points of their life. They needed fresh and new pastures



Areas Where The Vedic People Settled

for their animals. This was the most probable reason for their migration. During migration, some of them moved towards Europe and some turned eastward. They first settled in Iran, then moved towards India. The Aryans in India are called 'Indo-Aryans' or simply 'Aryans'.

	KHOW	Maria
•	14 RA CO AA	

One important evidence of Aryans' Central Asian roots is their language, i.e., Sanskrit. It has several similarities with the European languages.

Sanskrit	Latin	English
Matri (mother)	Mater	Mother
Satam(hundred)	Centur	Century
Tri(three)	Tres	Three
	ty hotwoon S	melule .

This shows the similarity between Sanskrit, Latin and English.

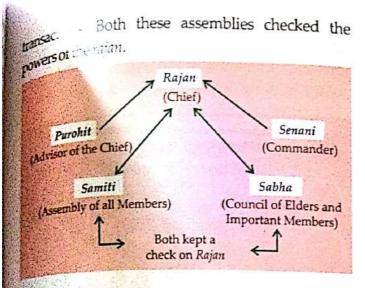
EARLY VEDIC PERIOD (BRAHMAVARTA) (1500 BCE – 1000 BCE)

We know about the life, society and achievements of this period mainly through the Rigveda. Therefore, it is also called the Rigvedic Period or Rigvedic Age.

Political Organisation

The Aryans gave up their nomadic life during this time. They started living settled lives. They were divided into many tribes called *janas*. The *janas* consisted of many villages called *gramas*. Grama was the smallest unit. The headman of the *grama* was called *gramani*. A *grama* consisted of a number of families. Each tribe had a chief called *rajan*. He was selected on the basis of ability and potential. The post was not hereditary. His main duties were to defend his *jana* (tribe) from external attacks, to look after people's welfare and to protect their cattle. People offered *bali* (voluntary tribute) for his services.

There were two tribal assemblies, i.e., the sabha and the samiti. The sabha was a council of elders and important members of the tribe. It advised the rajan on all important social and political issues. The samiti was a general assembly. All members of the tribe took part in it. The people gathered here for business



SOCIAL LIFE

Family System

The Aryans called their family kula. They followed the joint family system. Many generations lived together. The oldest male member was the head of the family and was called the kulap or grihapati.

Status Of Women

Women held respectful position in the Rigvedic society. Women were respected and they received education. They were also allowed to study the Vedas. They were permitted to attend samiti meetings. They also participated in debates. Many women are even known to have composed hymns. Gargi, Maitreyi, Ghosha and Lopamudra were highly educated women who lived during the Early Vedic Period.



In the Vedic Period, women enjoyed the right to choose their husbands through a ceremony called swayamvara. Widows were allowed to remarry and therewas no child marriage.

Varna System

The society was divided into four groups called varnas. These were brahmins, kshatriyas, vaishyas and shudras. Each varna had a different set of functions. Brahmins belonged to the first varna and their duty was to impart the knowledge of the Vedas, to perform sacrifices and to receive gifts.



The Varna System

Kshatriyas were the second *varna*. They were the warriors. They fought battles and protected people. Vaishyas formed the third *varna*. They included traders, farmers, artisans and herders. Both vaishyas and kshatriyas could perform sacrifices.

Shudras belonged to the last varna. Their duty was to serve the upper three varnas.

The evils of the caste system were not present in the Early Vedic Age. In fact, it was quite flexible. People were allowed to change their occupation despite being born in a particular class. It is noteworthy to quote a Rigvedic verse here—"I am a poet, my father is a doctor and my mother is a grinder of corn." This shows that there was no rigid caste system during this time.

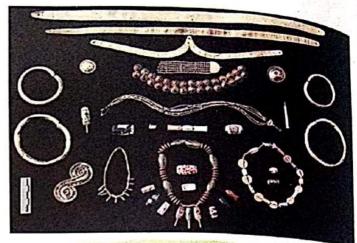
Quick Revision

Laure Comment	
A. Tick (/) the correct op	tions.
1. The main source of i	nformation about the
Aryans are the	
(a) Aryavarta	(b) Brahmavarta
(c) Vedas	(d) Kalpas
2. The Early Vedic P	eriod (Bra <mark>hmavarta)</mark>
extends from	
(a) 1500 BCE-1000 B	CE 🔲
(b) 1500 BCE-1100 B	CE
(c) 1000 BCE - 600 BC	
(d) 1500 BCE – 1200 B	
3. The Aryans called the	
(a) sabhas	(b) kula
(c) varnas	d) janas
4. The society was div	ided into four groups
called	
(a) varnas	(b) kulas
(c) gramas	d) sabhas
B. Complete the web ch	art.
7 Raja	
(Chie	ef)
Purohit	
	(Commander)
Samiti	Ä
()	(Council of Elders and
1	Important Members)
\rightarrow	
ESCURIO PLONO A PROPERTINA PROP)

Lifestyle

The Aryans enjoyed a simple and healthy diet. They ate barley, vegetables, fruits and meat. They were fond of milk and milk products. *Soma* (a Vedic ritual drink from a plant) was very popular among them. It was consumed on special religious ceremonies. Their dress was simple. Men wore *dhotis*. They kept a piece of cloth over

their shoulders. They also tied a turban over their heads. The women wore a saree and an upper garment. Ornaments made of gold and silver were popular among both men and women.



Ornaments Of The Vedic Period

The life of Aryans was full of entertainment. Music, dancing, singing, hunting and chariotracing were popular forms of recreation.

Religion

We know a lot about the religion of Aryans. Early Vedic people worshipped different forces of nature.

On every important occasion, people performed yajnas (sacrifices). They pleased the gods by offering ghee, grains and animals. They prayed for health and well being, cattle, children and horses. Gradually, the yajnas became very elaborate and complex. They were performed in an open area as the Aryans had no temples or idols.



Economic Life

In the beginning of the Early Vedic Period, the Aryans led a nomadic life. Gradually, they started to settle down at one place. A wealthy person in the village was called the gomat. Cow was the unit of wealth - prosperity or how wealthy a person was, depended on the number of cows one owned.

It seems the Early Vedic people knew the art of agriculture. The Rigveda mentions the use of yava or barley. The villages during the Early Rigvedic Period were self-sufficient units. Agricultural implements during this period were made of wood or copper (use of iron was still unknown to them).

Agriculture and cattle rearing were the main occupations of the people during the period, along with pottery making, metal work, weaving, chariot making and leather work.

Quick Revision

- A. Tick (/) the statements that are true and cross (X) those that are false.
- 1. There was no entertainment in the lives of the Aryans.
- 2. In the beginning of the Early Vedic Period, the Aryans led a nomadic life.
- 3. Agriculture was known to the Early Vedic people.
- 4. Horses were the unit of wealth.
- 5. Villages during the Early Vedic Period were self-sufficient units.
- B. Circle the odd ones.
- 1. barley, vegetables, fruits, leaves
- 2. dancing, praying, hunting, chariot-racing
- 3. cooking, agriculture, weaving, cattle rearing
- 4 agricultural implements, iron, copper, wood

LATER VEDIC PERIOD (ARYAVARTA) (1000 BCE - 600 BCE)

Sources

The main sources of information of this period

are the three Vedas - Yajurveda, Samaveda and Atharvaveda. These are also known as the Later Vedas as they were composed in Later Vedic Period. Therefore, this period is known as the Later Vedic Period. Besides, archaeological findings (painted grey ware pottery) at various sites also help us to complete our knowledge about the period.

Two important changes took place during this period. First, the Aryans shifted their base from Sapta Sindhu to Aryavarta. Second, they started using iron. Iron helped the



Painted Grey Ware Pottery

Aryans make tools to cut trees to get more land and move towards the east. Later Vedic texts have referred to iron as the Shyam Ayas (black metal). It is a fact that Aryavarta was full of forests before the advent of Aryans.

Political Organisation

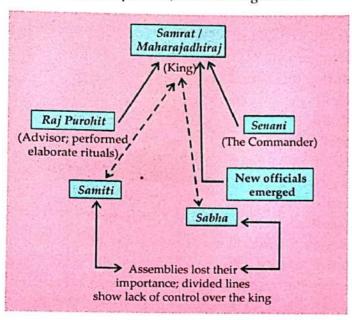
Aryans began a more settled life and formed small kingdoms. These were called janapadas. The Kuru tribe of Rigveda occupied the region around present-day Delhi. It was named Kurukshetra and Hastinapur became its capital. Two important dynasties of Mahabharata were the Kauravas and the Pandavas. Both dynasties belonged to the Kuru tribe. A battle between them is believed to have been fought for 18 days. Many other changes took place in the Later Vedic Age.

A village consisted of many families. The village authority was called Gramani. A cluster of villages was called a Vish. Its authority was called Vishpati. A number of Vishes constituted a Jan which was ruled by Rajan.

The king became very powerful by this time. The control was no longer with the sabha and the samiti.

Kingship became hereditary. The eldest son generally succeeded the king. Kings adopted grand titles such as Maharajadhiraj and Samrat.

Due to the expansion of territories, the administrative work also increased manifold. The king was assisted by a large number of officials like the purohit, senani and gramani.



The Raj Purohit performed elaborate rituals and gave advice. The senani became very important as the frequency of wars also increased.

Organise an activity in which your class elects a Rajan. What qualities do you feel are required in order to become the Rajan? Organise yourselves into groups of six and list those qualities. Discuss about them in class.

Varna System

In the Later Vedic Period, the four varnas were determined by birth. Change of caste became difficult though not impossible. The position of women also declined. They were not allowed to take part in public matters. They were no longer allowed to study the Vedas or participate in the samiti's meetings. The Vaishya class had many of their rights denied and the shudras were treated as mere servers of the upper varnas.

SOCIAL LIFE

Family System

The joint family system continued. The birth of son was greatly welcomed. Mother and father, brother and sister, uncle and aunt, grandfather and grandmother, all lived together as one family. The able members of the family worked hard and contributed in the livelihood of the family. The eldest male of the family was usually the head who exercised authority and control over the family and his opinions were highly valued during discussions or decision making. Women lost the position of respect they held during the Early Vedic Period.

Gurukul System Of Education

Education in India originated with the Gurukul system. In this system, the boy had to stay with his guru (teacher) in a gurukul till the age of 25. Gurukuls were generally situated on the riverbanks or deep in the forest to attain real knowledge. Boys learnt various subjects such as the Vedas, logic, mathematics, grammar and medicine. Oral education was imparted. On completion of education, students offered guru dakshina or fee according to their means. This was also voluntary.

The Four Stages Of Life

Aryans divided their lifespan into four stages. These are called ashramas. Each stage was divided into 25 years.

- Brahmacharya student life (Gurukul Ashrama education) belonged to the Brahmacharya ashrama
- Grihastha for family life, Ashrama marriage was the main religious ceremony of this Ashrama
- Vanaprastha a retired life and for Ashrama meditation
 - Sanyasa for prayers and a life of renunciation, devotes all Ashrama time and energy to the welfare of the society

_{Vasudha}iva Kutumbakam Vasuum that all living beings that survive and sustain on the Earth are part of one big family. Each and every person in the Vedic period behaved in the manner of everyone being a part of the same family living in the same world. Even the life of animals and other living organisms on the planet was given importance. Vedic literature is full of writings which depict the lifestyle of the people during the Vedic Period.

Work Work

We know that arithmetic is not possible without zero. The idea of zero was known to the Vedic people. It was represented by a dot. Later, a small circle was used for it. Several centuries ago, it spread from India to other parts of the globe and contributed to the development of arithmetic.

Literature

Vedas: The Vedas are among the oldest Vedic texts. Yajurveda, Samaveda and Atharvaveda were composed during this period. Later, the Upanishads were composed around 600 BCE. Work on astrology, poetry and grammar also took place during this time.

The two great epics-the Mahabharata and the Ramayana were also written in this period.

- The Ramayana: It is said that this great epic was written by sage Valmiki. It narrates the war between Rama and Ravana.
- The Mahabharata: It is said that this epic was written by sage Ved Vyas. It is the longest epic in the world. It tells about the battle between the Pandavas and the Kauravas.

Upanishads: The Upanishads are a collection of texts of religious and philosophical nature written in India.

Puranas: The term 'Purana' literally means 'ancient or old'. There are 18 Maha Puranas (Great Puranas) and 18 Upa Puranas (Minor Puranas). The Puranas are composed primarily in Sanskrit.

Religion

During the Later Vedic Period, the mode of worship also changed. The yajna (sacrifices) became even more elaborate and costly. Only the Brahmins were

supposed to know the right way to conduct them, so they were given great importance. The kings started performing large community sacrifices in which the entire community took part.

During this period, the Rigvedic gods lost their importance. The trinity of Gods, Brahma, Vishnu and Shiva, replaced the gods of nature. Some important female deities were also worshipped like Usha (Goddess of Dawn) and Prithvi (Goddess of Earth).

Rituals related to all aspects of life were performed. The priests who officiated these sacrifices were regarded and given dakshinas or gifts.

Economic Life

Agriculture remained the most important occupation. Barley, wheat, rice, vegetables, cotton and oil seeds were the main crops. The use of iron plough increased the crop production. More lands were brought under cultivation. People could produce extra than their needs. Therefore, the king demanded regular taxes. The tax was called bhaga which means 'share'.

Crafts such as pottery, carpentry, jewellery designing and weaving were popular. There were guilds in this period. Guilds were organisations of craftsmen and merchants. These guilds fixed the prices of the different items. The traders were called Pani. Profession became hereditary with time. With the growth of civilisation, the barter system was abandoned. Instead, gold and silver coins came into circulation. We get a reference of Nisk in Rigveda which was a gold coin, used as currency during that period.

The earliest coins are called punch-marked coins. The symbols were punched on



pieces of silver. Symbols of animals, hills, trees and humans were usually marked on them. These were issued either by the king or the guilds. These coins did not have any writing on them. The volume of trade and commerce had increased by leaps and bounds. People became familiar with navigation of seas.

Rive	ers of Rigvedic Period
Old name	Presentname
Kubha	Kabul
Kurmuda	Kurrum
Gomati	Gomal
Suvastu	Swat
Sindhu	Sindh
Vitasta	Jhelum
Ashkani	Chenab
Parushni	Ravi
Vipasha	Beas
Shatudri	Satluj
Dwashdwati	Saraswati
	Quick Revision
A. Fill in the blanks.	
. The main source of information about	the Later Vedic Period are the three Vedas
2. During the Later Vedic Period, the Arvane	s started using to make tools to cut trees
B. Education in India originated with the	sstarted using to make tools to cut trees
Gurukul education belonged to the	system.
Since people produced overs are in the	ashrama.
Propre produced extra grains, the	king demanded
white the following.	
. Shyam Ayas	(a) king
. janapadas	(b) share
3. Samrat	(c) iron
. bhaga	(d) epics
. Sanyasa ashrama	(e) small kingdoms
. The Mahabharata and the Ramayana	(f) for prayers and a life of repunciation
C. Identify the pictures.	(f) for prayers and a life of renunciation
	2.
	xercise
Choose the correct answers.	Use Cordova Smart Class Software on the smart board in class to do
하고 있어요? 그 요즘 아니다 아니는 아니는 사람들이 되었다. 그 생각이 되었는데 아니는 사람들이 아니	
(a) The number of Vedas are	
(i) two	(ii) three
(iii) four	(iv) five
8 HISTORY-6	the state of the s

The ancient name of river Saraswati	is	
The ancient	(ii) Sindhu	
(iii) Gomati	ical and the	
(iii) Gomati Nite the names of two Vedic period polit Write the names of two Vedic period polit Orietly describe the family system during Spiefly describe terms Pani and Nisk mean?	the Vedic period	
riefly describe the Pani and Nisk mean?	-me period,	
shat do the		
ame the older	cPeriod	
Write a short the peculiarities of the Ve	edic period	
Briefly describe the pecuniary	ring the Vedicers	
ariefly describe the peculiarian du illustrate the importance of education du	edic period	
ant on trade during and		
Comment of the Cour Vedas.	Activity	
use of the Vedic period tradit	tions and ceremonies (rituals) which are being	oractised
prepare a list of the vector period tradition during the present days also.	The same coroniorness (includes) which are some	
Enact selected stories of Vedic period on s	stage during students' meetings.	
Enactselected		MARKET A
Additional O	uestions For Practice_	
Additional		
Multiple Choice Questions (MCQs) — Tio	ck (✓) the correct options.	
1. The Vedic Civilisation started in	BCE.	
(L)	1000	Ш
2. In the Later Vedic Period, the area w	where the Aryans settled is also known as	
(a) Brahmayarta (b)	Aryavarta	
3. The fought battles	and protected people. (c) kshatriyas	
(a) brahmins (b)	shudras	
Awealthy person in village was call	led the (c) kulap	
(a) gomat (b)	yava	
ill in the blanks.		
meword 'Veda' means	· · · · · · · · · · · · · · · · · · ·	
The Aryans settled in the area called	A CONTO THE UDDO	
There are Maha Puranas	and	
The priests who officiated sacrifices	s were given	
The earliest coins are called	coins.	
carllest coins are called	(SEUSTORIA)	179

C. Match the following.

1. Vedas

(a) Rigveda

2. brahmins

- (b) Samaveda
- 3. Later Vedic Period
- (c) organisations of craftsmen
- Early Vedic Period
- (d) Sanskritlanguage

5. guilds

(e) performed sacrifices

D. Very Short Answer Questions

- When did the Vedic Civilisation end?
- 2. What were the Aryans in India called?
- Name two highly educated women of the Early Vedic Period.
- 4. What was the unit of wealth in the Vedic Age?

E. Short Answer Questions

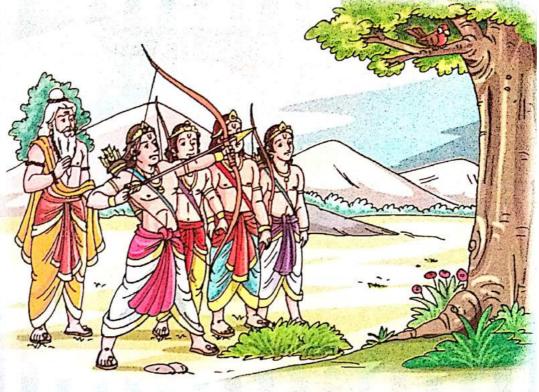
- 1. Name the four Vedas.
- 2. Write a short note on settlement of Aryans in India.
- Write about the family system of Aryans.
- 4. List the occupations of the people in the Early Vedic Period.
- 5. Write about the Mahabharata and the Ramayana.

F. Long Answer Questions

- 1. What changes took place in the political organisation of the Later Vedic Period?
- 2. Give a brief account of the Gurukul system of education.
- 3. How did the following change with the transition from the Early Vedic Period to the Later Vedic Period?
 - (a) varna system
 - (b) religion
 - (c) position of women
- 4. Mention the position and function of each varna during the vedic period.
- 5. Write about the economic life of the Later Vedic Period.

pead and enjoy the following story.

bury Dronacharya wanted to test his wanted to test his students, the students, the pandavas, in archery. He took them into a forest, walked a long way and reached a stream. Across the stream, he set up a small wooden bird on a tree. Gury Drona looked at all of them and said, "Look at the wooden bird on that



tree. One by one, aim your arrows and hit the eye of the bird."

Yuddhishtra was the first to be called. He pulled out his arrow and aimed at the bird. Before he let the arrow off his bow, Drona looked at him and asked, "What do you see Yuddhishtra? Name all the things you see." Yuddhishtra kept aiming at the bird and replied, "I see the wooden bird, the leaves and branches of the tree, the stream, the birds, the sky, the Sun, other trees......"

Drona shook his head and said, "Stand back Yuddhishtra, put your bow down. You cannot hit the target." Yuddhishtra was confused but he walked quietly to his brothers.

One by one, all the princes were called and asked the same question. Each came up with similar answers. Finally, Arjuna was left. As Arjuna aimed at the bird, Drona asked him "Tell me, what do you see there?"

"I can see only the eye of the bird," replied Arjuna.

"Can you not see the trees and the stream?" asked Drona

Arjuna said "No sir, I can see only the eye of the bird." Drona was very pleased with the answer. He glanced at other princes, who seemed to have understood what the Guru wanted to convey. Finally, Drona permitted Arjuna to shoot.

Arjuna shot the eye of the wooden bird. The boys were amazed. It was a perfect shot.

Dronacharya turned to the princes and said "Young princes, I hope you have learnt a lesson. Focus your attention on your task, only then you will get perfection. This is called the power of concentration."

