Lesson 5: Rotation and Revolution

II. Fill in the Blanks. (Extra)

- 1. Rotation
- 2. Revolution
- 3. 365 days 6 hours
- 4. February
- 5. Northern, Southern

III. Answer the following in one sentence. (Extra)

- 1. Meridian runs through the North Pole to the South Pole.
- 2. Earth rotates from West to East
- 3. Revolution takes a year.
- 4. Day and Night are caused by the earth's rotation.
- 5. The elliptical orbit and the tilted axis of the earth are the reasons for the seasons.

IV. Answer the following.

- 1. Why do we have day and night?
 - Earth's rotation causes day and night. The movement of earth on its own axis is called rotation.
 - As it rotates, the parts of the earth facing the sun experience light, so for these areas it is day, and the opposite side where there is darkness it is night.
- 2. What do you understand by the earth's orbit?
 - The earth revolves around the sun in a fixed elliptical path called orbit.
- 3. How long does the earth take to revolve around the sun once?
 - The earth takes 365 days and 6 hours to revolve around the sun once.
- 4. Why do we have leap years?
 - The earth takes 365 days and 6 hours to revolve round the sun. An extra day is added to the calendar every fourth year due to the addition of 6 hours per year [6×4=24hours = I day]. Such a year which has 366 days in it is known as a leap year.

- In a leap year, February has 29 days instead of 28.
- 5. What are the two factors due to which we have seasons on earth?
 - The elliptical orbit and the tilted axis of the earth are the two factors due to which we have seasons on earth.

Lesson 6:

Domains of the earth

II. Fill in the blanks. (Extra)

- 1. Iron
- 2. Water Cycle
- 3. Atmosphere
- 4. Atmosphere
- 5. Biosphere

III. Answer in one sentence. (Extra)

- 1. Hydrosphere forms most of the volume of the earth.
- 2. Rain occurs in the condensation stage of the water cycle.
- 3. Ozone Layer contains a 'filter' to block harmful ultraviolent rays.
- 4. The atmosphere is the layer of oxygen and other gases that surrounds the earth.
- 5. The biosphere is the part of the environment where living things can survive.

IV. Answer the following.

- 1. What are the four domains of the earth?
 - The Lithosphere, Hydrosphere, Atmosphere and the Biosphere are the four domains of the earth.
- 2. In which layer of the earth do we find minerals such as coal and petroleum?
 - We find minerals such as coal and petroleum in the Lithosphere.
- 3. How many stages are there in the water cycle? Name them.
 - The water cycle has three stages. They are,
 - Evaporation: process of converting water into water vapour.

- Condensation: process of converting water vapour into water droplets.
- Precipitation: the water droplets that form clouds become heavier to hold together and drop down in the form of rain/ hail/ snow.
- 4. Which gas forms the largest part of the air around us?
 - Nitrogen gas forms the largest part of the air around us.
- 5. What is an ecosystem?
 - An ecosystem is made up of all the living and nonliving components of an area. These components interact with and depend on each other for existence.

Lesson 8:

Understanding Maps.

II. Fill in the blanks. (Extra)

- 1. Locate the places
- 2. Globe
- 3. Cartographer
- 4. Colors
- 5. Map scale

II. Answer in one sentence. (Extra)

- 1. Physical map shows the features on the surface of the earth.
- 2. Blue indicates all the waterbodies.
- 3. Magnetic compass is used in navigation, to determine the direction on the surface of the earth.
- 4. The top of the map usually indicates North direction
- 5. Boundaries between different states are shown in Political Maps.

IV. Answer the following.

1. What is a map?

- A map is a drawing of the whole earth or a part of it on a flat surface such as a sheet of paper.
- 2. Why do we need maps?
 - Maps helps us to get an idea about the shape and size of an area, its physical features, and the distance between two places.
- 3. What does a physical map tell us?
 - Physical maps show both natural and man-made features on the surface of the earth.

These include Natural features like mountains, plains, forests and water bodies or man-made features such as canals, artificial lakes, dams, bridges and parks.

- 4. What do you understand by the scale of a map?
 - The scale of a map is the ratio of distance of two places on a map to the distance of same two places on the ground.
- 5. Why do we need the legend of a map?
 - The legend of a map explains the meaning of the colours and symbols used in a map, which helps us to study the map. It is usually included in a box in one corner of the map.
- 6. Explain the important colours used on a map.

Some standard colours used in maps are:

- Brown: mountains and hills.
- Green: plains.
- Blue: water bodies
- Yellow: deserts.
- Light brown: plateaus.

Lesson 9: States of India

II. Fill in the blanks. (Extra)

- 1. President
- 2. Kerala
- 3. Chennai
- 4. 22
- 5. Bengaluru

III. Answer in one sentence. (Extra)

- 1. There are 28 states in India.
- 2. There are 9 union territories in India.
- 3. Uttar Pradesh is the most populous state in India.
- 4. The largest state in terms of area is Rajasthan
- 5. Hindi and English are the two official languages of India.

IV. Answer the following.

- 1. Why have we divided India into states?
 - To govern a vast area and a large population from one centre the government in Delhi, the country has been divided into states and union territories.
- 2. How many union territories are there in India?
 - There are nine union territories in India.
- 3. What is the main difference between states and union territories?
 - Each state has a government of its own. The union territories are controlled by Central Government.
- 4. What do you understand by the capital of a state or country?
 - A city that is the centre of administration of a country or state is known as its capital.
- 5. Which city is the capital of two states?
 - Chandigarh is the shared capital city of both Punjab and Haryana.