

Exercises

A. Tick the correct option :

1. In olden days, earth was considered _____.

Ans - (b) flat

2. Days are longer in _____.

Ans - (a) summer

3. _____ is made up of all the earth's physical materials.

Ans - (c) Lithosphere

4. The molten hot boiling liquid coming out of a volcano is _____.

Ans - (b) lava

5. The imaginary line in the northern hemisphere is known as _____.

Ans - (c) Tropic of cancer

B. Short Answer Type Questions:

1. Why is earth a special planet?

Answer - Earth is a special planet because it is the only planet where life exist.

2. Name the three layers of earth.

Answer - The crust, mantle and core are the three layers of the earth.

3. What is the shape of the earth?

Answer - The shape of the earth is round. It is like an orange.

4. How much time does the earth take to complete one revolution around the sun?

Answer -The earth takes 365 days and 6 hours to complete one revolution . This duration is called a year.

5. Why are the days and nights equal at the equator?

Answer - The sun's rays fall directly on the equator throughout the year. Therefore, the days and nights are equal at the equator.

C. Long Answer Type Questions:

1. How does rotation of earth causes day and night?

Answer - The part of earth which gets sunlight has day and the other half which does not get sunlight has night. Thus, rotation of earth causes day and night.

2. How does the change of season occur? Name the four main seasons.

Answer - The change of season occurs due to Earth's revolution around the Sun and its tilted axis. The four main seasons are - spring, summer, autumn and winter.

3. What is biosphere? Explain how is it further divided.

Answer - The part of the earth where human beings, plants and animals exist is called biosphere. It is divided into :

- a. Lithosphere - It is made up of all the earth's physical materials.
- b. Atmosphere - It is made up of many gases and a few other substances.
- c. Hydrosphere - It is made up of all the earth's water.

4. How are volcanoes formed?

Answer - A volcano is formed when hot molten rock and gases comes out with great force from an opening in the Earth's surface, forming a mountain or a cone.

5. What is:

(a) Tropic of Cancer

Ans. The imaginary line in the Northern hemisphere is called the Tropic of Cancer.

(b) Tropic of Capricorn

Ans. The imaginary line in the Southern hemisphere is called the Tropic of Capricorn.

D. Fill in the blanks :

- 1. Equator divides the earth into two halves.
- 2. The innermost part of the earth is called Core.
- 3. The earth spins on its own axis.
- 4. The imaginary line in Southern hemisphere is called Tropic of Capricorn.
- 5. Hydrosphere is made up of all the earth's water.

E. State True or False:

- 1. The hemisphere facing the sun gets direct sunlight. (True)
- 2. Rotation of the earth causes seasons. (False)

3. The crust is the the innermost layer of the earth. (False)
4. Imaginary line in Northern hemisphere is tropic of cancer. (True)
5. Lithosphere is the blanket of air surrounding Earth. (False)

F. Match the columns :

1. Movement of Earth on its own axis- Rotation
2. Movement of earth around the sun- Revolution
3. Uppermost layer of earth- Crust
4. Imaginary line dividing Earth in two equal parts- Equator
5. Region having living beings- Biosphere

G. Draw a well labelled diagram of the earth showing all three imaginary lines.

Answer - Diagram is on Page no. 99

H. Puzzle and Quiz:

1. Give one word for
 - a) Hot liquid inside the volcano Lava
 - b) Hole in the centre of volcano Crater
 - c) Blanket of air surrounding the earth Atmosphere
 - d) The duration of one revolution of earth around Sun a year
 - e) Spinning of Earth on its own axis Rotation
2. Find nine terms related to the lesson from the maze below :

Answer - Atmosphere:, Core:, Lava:, Earth:, Mantle:, Volcano:, Equator:, Crater :, Orbit