**OUR ENVIRONMENT**

1. **MCQs:**
2. **b) wonderer**
3. **c) Venus**
4. **a) Venus**
5. **b) Pluto**
6. **c) Jupiter and Mars**
7. **d) Halley**
8. **a) 76 years**
9. **VERY SHORT ANSWER TYPE QUESTIONS:**
10. **Define Universe.**

**Ans**:University is defined as the totality of everything that exists including all physical matters and energy, the planets, stars, galaxies, etc.

1. **What is the solar system ?**

**Ans**:TheSolar system refers to the eight planets, satellites, a large number of other heavenly bodies like meteors, comets, etc.

1. **Name any two artificial satellites of India.**

**Ans**: **(write any two):** Sputnik – I, Aryabhata, Bhaskara I and II, Rohini – I and II, INSAT I, II and III.

1. **What are the main gases present in the sun ?**

**Ans**:Hydrogen and Helium are the main gases present in the sun.

1. **What is the distance between the sun and the earth ?**

# Ans: The distance between the sun and the earth is about 150 million km.

1. **Which planet is called the earth’s sister ?**

**Ans**: Venus is called the earth’s sister.

1. **SHORT ANSWER TYPE QUESTIONS:**
   1. **What are the celestial bodies ?**

**Ans**:

1. The word **‘celestial’** is derived from Latin word **“Celestis”** that means **“Sky”**.
2. Thus, the sun, moon, meteoroids, comets, asteroids, etc. that appear in the sky are collectively known as the celestial bodies.
3. According to the ancient people, “**Sky is heaven**”. Therefore, the celestial bodies are also known as the **heavenly bodies**.
   1. **Why is the moon important for the Earth ?**

**Ans**: The Moon is the only natural satellite of the earth. It is very significant for our planet in the following ways:

1. The Moon is different positions provide the full moon night (Poornima) and new moon night (Amavasya).
2. The gravitational force of the moon is helpful in creating tides on the earth.
   1. **What do you know about the galaxy ?**

**Ans**:

1. A galaxy is a huge system of billions of stars and clouds of dust and gases.
2. There are millions of galaxies in the universe which vary in shape, size and brightness.
3. Our solar system is a part of galaxy which is known as the Milky Way galaxy or Akash Ganga.
   1. **Write a short note on the Sun.**

**Ans**:

1. The sun is the centre of the solar system.
2. It is huge ball of hot and burning gases which is the largest celestial body in the solar system.
3. The surface temperature of the sun is about 6000° C.
   1. **Why is the earth called blue planet ?**

**Ans**: The earth is called the blue planet because ¾ of its surface is covered with water.

1. **LONG ANSWER TYPE QUESTIONS:**
   1. **Differentiate between comet, asteroids and meteoroids.**

**Ans**:

1. A **Comet** is a shiny heavenly object made up of clumps of ice having bright head and tail that always points away from the sun.
2. **Asteroids** are the group of tiny bodies made up of rock and metal which revolve around the sun, mainly between the orbits of Mars and Jupiter.
3. **Meteoroids** are small celestial objects that enter the earth’s atmosphere and get burst due to heat produced by friction against air and flashes as a streak of light in the sky.
   1. **“The Earth is a unique Planet”. Explain the statement.**

**Ans**: **The Earth is a unique Planet because:**

1. It provides favourable conditions for the existence of life.
2. It is neither too far nor too close to the sun and has optimum temperature for the survival of life.
3. The earth’s atmosphere is rich in oxygen and carbon dioxide.
4. Water is also present on the earth which is essential for all forms of life.
   1. **What is a planet ? How many planets are there in the solar system ? Write down their names.**

**Ans**:

1. The word “**planet**” is derived from the Greek word “**Planetes**” that originally means “**wonderer**”. The planets are heavenly bodies that revolve around the sun in an elliptical orbit.
2. There are eight planets in the solar system: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. These planets are categorised into two categories: inner and outer planets.
3. Mercury, Venus Earth and Mars are called the **Inner Planets**.
4. Jupiter, Saturn, Uranus and Neptune are called the **Outer Planets**.
   1. **Differentiate between Planets and Stars.**

**Ans**:

|  |  |
| --- | --- |
| **STARS** | **PLANETS** |
| **i.** A star is made up of hot burning gases. | **i.** The planets are made up of solid materials like rocks and stones. |
| **ii.** Stars twinkle. | **ii.** Planets don’t twinkle. |
| Stars have their own light. | Planets reflect the light of the stars. |
| **iii.** Stars are very hot. | **iii.** The more they are near to the sun the hotter they are and if they are far away from the sun, they are cooler. |
| **iv.** Stars can be seen with naked eyes. | **iv.** The planets cannot be seen with naked eyes. |
| **v.** There are billions of stars in the universe. | **v.** There are eight planets in the solar system. |

1. **FILL IN THE BLANKS:**
2. **The light from the Sun reaches us in \_\_\_\_\_\_\_\_.**

**Ans**: 8 minutes.

1. **\_\_\_\_\_\_ is the closest planet of the Sun.**

**Ans**: Mercury.

1. **Celestis (Latin word) means \_\_\_\_\_\_\_.**

**Ans**: Sky.

1. **\_\_\_\_\_\_\_ is the brightest star.**

**Ans**: Pole star.

1. **\_\_\_\_\_\_\_ is also called the Red Planet.**

**Ans**: Mars.

**ADDITIONAL EXERCISES**

1. **ONE-WORD ANSWER TYPE QUESTIONS:**
   1. **What is the meaning of ‘Nebula’ ?**

**Ans**: dust and cloud.

* 1. **Which planet revolves around the sun from east to west ?**

**Ans**: Venus.

* 1. **Which planet is also known as the Earth’s twin sister ?**

**Ans**: Venus

* 1. **How many days moon takes to move around the earth ?**

**Ans**: 27 days

* 1. **Name a famous comet.**

**Ans**: Halley.

* 1. **After how many years does a comet appear ?**

**Ans**: 76 years.

* 1. **How many planets are there in the solar system ?**

**Ans**: 8 planets.

* 1. **Who was the first man to reach the Moon and to walk on the Moon ?**

**Ans**: Neil Armstrong.

* 1. **Which is also called Red Planet ?**

**Ans**: Mars.

* 1. **Name the two satellites of Mars.**

**Ans**: Demos and Phobos.

* 1. **Name the first artificial satellite of India.**

**Ans**: Aryabhata.

* 1. **What is the other name of Pole Star ?**

**Ans**: The North Star or the Polaris.

1. **FILL IN THE BLANKS:**
   1. **The tiny twinkling objects that appear in the night sky are called \_\_\_\_\_.**

**Ans**: the stars.

* 1. **The family of the sun is called \_\_\_\_\_\_.**

**Ans**: the Solar System.

* 1. **A \_\_\_\_\_ is a huge system of billions of stars and clouds of dust and gases.**

**Ans**: galaxy.

* 1. **A galaxy is a huge system of billions of stars and clouds of \_\_\_\_\_\_.**

**Ans**: dust and gases.

* 1. **The light travels at the speed of \_\_\_\_\_\_ km/second.**

**Ans**: 3, 00,000.

* 1. **\_\_\_\_\_\_ acts as a cover to protect us from extreme coldness.**

**Ans**: Carbon dioxide.

* 1. **Pluto is \_\_\_\_\_ planet.**

**Ans**: dwarf.

* 1. **\_\_\_\_ is Earth’s only known natural satellite.**

**Ans**: Moon.

Note: Geography copy you have to make practical kind of copy

Blank pages are for diagrams. In this chapter you have to draw

Only two diagrams....1. Solar System 2. Phases of the moon.

Question Answers you have to write write in your fair copy.

Additional Question Answers and Excersie you have to do

In your book itself.