

Exercises

Question 1:

Answer the following questions briefly.

- (a) How does a planet differ from a star?
- (b) What is meant by the 'Solar System'?
- (c) Name all the planets according to their distance from the sun.
- (d) Why is the Earth called a unique planet?
- (e) Why do we see only one side of the moon always?
- (f) What is the Universe?

Solution 1:

(a) Difference between star and planet:

| S.NO. | Star | Planet |
|-------|--|---|
| 1. | Some celestial bodies are made up of gases. They have their own heat and light, which they emit in large amounts. These celestial bodies are called stars. | Some celestial bodies do not have their own heat and light. They are lit by light of stars. Such bodies are called planets. |
| 2. | Example: Sun | Example: Earth, Jupiter etc. |

- (b) The sun, eight planets, satellites and some other celestial bodies known as asteroids and meteoroids form the solar system.
- (c) Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
- (d) The earth is neither too hot nor too cold. It has water and air, which are very essential for our survival. The air has life-supporting gases like oxygen. Because of these reasons, the earth is a unique planet in the solar system.
- (e) The moon moves around the earth in about 27 days. It takes exactly the same time to complete one spin. As a result, only one side of the moon is visible to us on the earth.
- (f) Universe is the collection of millions of galaxies.

Question 2:

Tick the correct answer.

- (a) The planet known as the "Earth's Twin" is
 - (i) Jupiter
 - (ii) Saturn
 - (iii) Venus
- (b) Which is the third nearest planet to the sun ?

- (i) Venus (ii) Earth (iii) Mercury
- (c) All the planets move around the sun in a
- (i) Circular path (ii) Rectangular path (iii) Elongated path
- (d) The Pole Star indicates the direction to the
- (i) South (ii) North (iii) East
- (e) Asteroids are found between the orbits of
- (i) Saturn and Jupiter (ii) Mars and Jupiter (iii) The Earth and Mars

Solution 2:

- (a) (iii) Venus
- (b) (ii) Earth
- (c) (iii) Elongated path
- (d) (ii) North
- (e) (ii) Mars and Jupiter

Question 3:

Fill in the blanks.

- (a) A group of ___ forming various patterns is called a ___ _
- (b) A huge system of stars is called _ _
- (c) ___ is the closest celestial body to our earth.
- (d) ___ is the third nearest planet to the sun.
- (e) Planets do not have their own ___ and _____ _

Solution 3:

- (a) A group of *star* forming various patterns is called a *constellation*.
- (b) A huge system of stars is called *galaxy*.
- (c) *Moon* is the closest celestial body to our earth.
- (d) *Earth* is the third nearest planet to the sun.
- (e) Planets do not have their own *heat* and *light*.