



### L-1. The Earth In The Solar System

Answer the following questions:

**Q1. How does a planet differ from a star?**

| Planet   | Star  |
|--|---|
| <ul style="list-style-type: none"> <li>A planet does not have its own heat and light. It reflects the light from the sun.</li> </ul> | <ul style="list-style-type: none"> <li>A star possesses its own heat and light.</li> </ul>          |
| <ul style="list-style-type: none"> <li>A planet is usually smaller than stars.</li> </ul>  | <ul style="list-style-type: none"> <li>Stars are very huge objects compared to a planet.</li> </ul> |
| <ul style="list-style-type: none"> <li>There are eight planets in our solar system.</li> </ul>                                       | <ul style="list-style-type: none"> <li>There are numerous stars in our galaxy.</li> </ul>           |
| <ul style="list-style-type: none"> <li>E.g. Earth</li> </ul>   | <ul style="list-style-type: none"> <li>E.g. Sun</li> </ul>  |

**Q2. What is meant by the ‘Solar System’?**

**Ans.** The term Solar System refers to the “family” of the Sun. The Sun is the star around which eight planets revolve in orbits. It refers to the sun, the eight planets, dwarf-planet, satellites, asteroids, meteoroids and dust particles.

**Q3. Name all the planets according to their distance from the Sun.**

**Ans.** (i) Mercury (ii) Venus (iii) Earth (iv) Mars (v) Jupiter (vi) Saturn (vii) Uranus (viii) Neptune

**Q4. Why the Earth is called a unique planet?**

**Ans.** The Earth is called a unique planet because:

1. Only it has conditions that are favourable to support life.
2. It has suitable temperature for life. It is neither too cold nor hot.
3. It has water and air, which are a must for survival.
4. It has ozone layer that protects the life from harmful radiations.

**Q5. Why do we see only one side of the moon always?**

**Ans.** We can see only one side of the moon always because:

1. It revolves around the Earth in about 27 days.
2. It takes exactly the same time to spin on its axis.

**Q6. What is the Universe?**

**Ans.** The universe is an endless space that holds everything from the smallest particle to the biggest galaxy. It consists of innumerable galaxies, celestial bodies, clouds of dust particles, gases, etc.