

THE EARTH IN THE SOLAR SYSTEM**Textbook Intext Questions****Page No. 5****1. What do animal and plants require in order to grow and survive?****Ans.** The animals and plants require solar energy/ water and air in order to grow and survive.**Textbook Exercises****1. Answer the following questions briefly.****(a) How does a planet differ from a star?****Ans.**

A planet	A star
1. A planet is a celestial body that revolves round the sun.	1. A star is also a celestial body and is a part of galaxy.
2. There are nine planets in our solar system. They do not have their own heat or light.	2. There are numerous stars in a galaxy. Each star may have a family of planets.
3. Planets draw their light and energy from sun.	3. A star has its own light and heat.
4. They are nine in number including our earth.	4. They are quite large (in billions) in number.
5. The earth is an example of planet.	5. The sun is an example of a star.

(b) What is meant by the “solar system”?**Ans.** The sun and nine planets which revolve around make a family of sun or solar system. There are 44 satellites in solar system.**(c) Name all the planets according to their distance from the sun.****Ans.** The planets according to their distance from the sun are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto.**(d) Why is the Earth called a unique planet?****Ans.** The earth is a small member of the Solar System. It is the fifth in size of nine major planets and third in distance. But it has unique position in Solar System.**(e) Why do we see only one side of the moon always?****Ans.** The moon revolves round the earth in about 27 days and 8 hours. It takes exactly the same time in completing one rotation about its axis. As such we always see only one side of the moon while the other side always remains away from us.**(f) What is the universe?****Ans.** The Universe is the whole body of stars, planets, satellites and gases. It is endless. Stars are huge bodies of glowing gases e.g. sun. Planets and satellites do not have heat and light of their own. They are lit by the light of the stars.

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) Elliptical 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.

Ans. (a) (iii); (b) (ii); (c) (iii); (d) (ii); (e) (ii).

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

Ans. (a) stars, constellation
(b) galaxy
(c) Mercury
(d) Earth
(e) heat, light.