

PH: 9835859669

JSUNIL TUTORIAL

PUNJABI COLONY GALI 01

Class 8th

Stars and the Solar System (Science)

1. Which of the following is NOT a member of the solar system?

- (a) An asteroid
- (b) A satellite
- (c) A constellation
- (d) A comet

Ans (c) Constellation

A constellation is not a member of the solar system. Constellations are groups of stars that form recognizable shapes.

2. Which of the following is NOT a planet of the sun?

- (a) Sirius
- (b) Mercury
- (c) Saturn
- (d) Earth

Ans: (a) Sirius Sirius is a star and not a planet of the sun.

3. Phases of the moon occur because

- (a) we can see only that part of the moon which reflects light towards us.
- (b) our distance from the moon keeps changing.
- (c) the shadow of the Earth covers only a part of the moon's surface.
- (d) the thickness of the moon's atmosphere is not constant.

Ans: (a) Phases of the moon occur because we can see only that part of the moon which reflects light towards us. Moon does not produce its own light. We are able to see the moon because the sunlight falling on it gets reflected towards us. Thus, we see only that part of the moon from which the light of the sun gets reflected

4. Fill in the blanks:

- (a) The planet which is farthest from the sun is _____.
- (b) The planet which appears reddish in colour is _____.
- (c) A group of stars that appear to form a pattern in the sky is known as a _____.
- (d) A celestial body that revolves around a planet is known as a _____.
- (e) Shooting stars are actually not _____.
- (f) Asteroids are found between the orbits of _____ and _____.

Ans:

- (a) The planet which is farthest from the sun is Neptune.
- (b) The planet which appears reddish in colour is Mars.
- (c) A group of stars that appear to form a pattern in the sky is known as a constellation.
- (d) A celestial body that revolves around a planet is known as a satellite.
- (e) Shooting stars are actually not stars.
(Shooting stars are not stars, they are meteors)
- (f) Asteroids are found between the orbits of Mars and Jupiter.
(Asteroids occupy a large gap between the orbits of Mars and Jupiter)

5. Mark the following statement as true (T) or false (F).

- (a) Pole star is a member of the solar system. ()
- (b) Mercury is the smallest planet of the solar system. ()
- (c) Uranus is the farthest planet in the solar system. ()
- (d) INSAT is an artificial satellite. ()

(e) There are nine planets in the solar system. ()

(f) Constellation Orion can be seen only with a telescope. ()

Answer: (a) False

Stars are not a member of the solar system. The sun and the celestial bodies revolving around it form the solar system.

(b) True

Mercury is the smallest planet of the solar system.

(c) False

Neptune is the farthest planet in the solar system.

(d) True

INSAT is an artificial satellite.

(e) False

There are eight planets in the solar system.

They are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

(f) False

Constellation Orion can be seen during winters around late evenings. It is one of the most magnificent constellations in the sky, visible to the naked eyes.