



# KALPAVRUKSHA MODEL SCHOOL

## Answers of Assignments-5

Class: VIII

Sub: Physics

Date: 19.06.2021

Topic: STARS AND SOLAR SYSTEM

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### **I. Answer the following questions:**

**1. Name the hottest planet.**

**ANS:** Venus is the hottest planet of the solar system.

**2. Name two planets which show phases like the Moon.**

**ANS:** Mercury and Venus two planets which show phases like the Moon.

**3. Which characteristics of Mars distinguish it from other planets?**

**ANS:** Mars is a terrestrial planet. Mars has a thin atmosphere.

Mars has an active atmosphere, but the surface of the planet is not active.

**4. Name the two planets that have asteroids between them?**

**ANS:** Mars and Jupiter are two planets that have asteroids between them.

**5. What are the various environmental conditions available on Earth which are responsible for the existence and conditions of life on Earth?**

**ANS:** The various environmental conditions on earth are responsible for life existence and continuation of life on the earth.

1) The earth has an atmosphere.

2) The earth has large quantities of water.

3) The earth has a suitable temperature range.

4) The earth has a protective blanket of ozone layer.

5) The axis of rotation of earth is slightly tilted with respect to the plane of its orbit(or path) around the sun.

**6. Write a short note on any two outer planets.**

**ANS: Jupiter:** A lot like the Sun, Jupiter is mostly composed of hydrogen and helium. Jupiter contains the largest ocean in the solar system, an ocean of liquid hydrogen. Overview and Facts. The gas giant Jupiter is the largest planet in the solar system, more than 300 times more massive than Earth. Chemical Composition. Like other gaseous planets, Jupiter lacks a solid, rocky surface. Jupiter's Rings. Great Red Spot. Jupiter's has 67 Satellites.

**SATURN** :Saturn is the second biggest planet of the solar system.Saturn is also made mainly of hydrogen and helium similar to Jupiter.Saturn is the only planet with a system of well-developed colorful rings encircling it.Saturn makes it unique in the solar system because of presence of rings. Saturn has many moons around 62.Saturn largest satellite Titan is even bigger than the planet mercury. The planet is called Shani Graha in Hindi.Saturn is an extremely cold planet so no life exists on it.

**7. Which force keeps the members of the solar system bound to the Sun?**

**ANS:** Gravity force keeps the members of the solar system bound to the Sun.