

# UNIVERSE, SOLAR SYSTEM AND ASTRONOMY BASED INDIAN GEOGRAPHY MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** Unlike the fluid core of the Earth the core of the Moon is

- a) Viscous liquid
  - b) Solid
  - c) Volatile gas
  - d) Plasma
- 

**Q2.** Which planet looks reddish in the night sky ?

- a) Mars
  - b) Mercury
  - c) Saturn
  - d) Jupiter
- 

**Q3.** During solar eclipse

- a) the moon comes exactly halfway between the earth and the sun.
  - b) the sun comes in between the earth and the moon.
  - c) the moon comes in between the sun and the earth.
  - d) the earth comes in between the sun and the moon.
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**Q4.** Which is the **second nearest star** to the Earth after the Sun?

- a) Proxima Centauri
- b) Alpha Centauri
- c) Sirius

d) Vega

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**Q5.** The earth is in aphelion on

- a) Sept. 23
- b) July 4
- c) Dec. 22
- d) June 21

**Q6.** The term 'Goldilocks Zone' is often seen in the news in the context of

- a) Search for the Earth-like planets in outer space
- b) Search for meteorites containing precious metals
- c) Regions inside the Earth where shale gas is available
- d) The limits of habitable zone above the surface of the Earth

**Q7.** Match the following.

List I	List II
A. Planet	1. Moon
B. Satellite	2. Uranus
C. Comet	3. Mariner
D. Artificial spacecraft	4. Halley

Codes: A B C D

- a) 4 3 1 2
- b) 2 1 3 4
- c) 1 2 3 4
- d) 2 1 4 3

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**Q8.** Diamond Ring is a phenomenon observed

- a) Only along the peripheral regions of the totality trail
  - b) Only in the central regions of the totality trail
  - c) At the end of a total solar eclipse
  - d) At the start of a total solar eclipse
- 

**Q9.** The Earth revolves around the Sun in an elliptical path and the Sun is located at one focus of the ellipse. Imagine a situation in which the Earth goes around the Sun on a circular path. Which one among the following would result in under that situation?

- a) The earth would become very hot
  - b) The Earth would become very cold
  - c) Difference between seasons will be reduced
  - d) It would not make any difference
- 

**Q10.** Match the following and choose the correct option from the codes given below:

List I	List II
A. Hottest Planet	1. Mars
B. Red Planet	2. Pluto
C. Dwarf Planet	3. Saturn
D. Planet with the lowest average density	4. Venus

Codes: A B C D

- a) A-3, B-1, C-2, D-4
  - b) A-4, B-3, C-1, D-2
  - c) A-2, B-3, C-4, D-1
  - d) A-4, B-1, C-2, D-3
-

**Q11.** Consider the following statements.

**A person in space craft situated at the mid of Earth and Sun will see that**

- Sky is black.
- Stars do not twinkle.
- The temperature outside the space craft is more than that of Earth surface.

Which of the following is **true**?

- a) 1 and 3
- b) 1, 2 and 3
- c) 1 and 2
- d) Only 3

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**Q12.** Which of the following elements are found in **highest and lowest quantities** respectively in the **crust of the earth**?

- a) Sodium and magnesium
- b) Oxygen and magnesium
- c) Calcium and sodium
- d) Oxygen and silicon

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**Q13.** Who discovered the solar system?

- a) Copernicus
- b) Kepler
- c) Newton
- d) Aryabhatta

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**Q14.** Which amidst the following planets has its orbit closest to Sun ?

- a) Jupiter

- b) Uranus
- c) Mars
- d) Venus

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**Q15.** Which of the following planets is the farthest planet of the Solar System?

- a) Saturn
- b) Mars
- c) Earth
- d) Neptune

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (a)**

Mars is the fourth planet from the Sun and the seventh largest. The planet probably got this name due to its red color; Mars is sometimes referred to as the Red Planet as the iron oxide prevalent on its surface gives it a reddish appearance.

**Q3. Answer: (c)**

Solar eclipse happens when the moon moves in front of the Sun as seen from a location on Earth.

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**Q4. Answer: (a)**

As the nearest star from our Solar System, Proxima Centauri is a prime candidate for future interstellar travel and space colonization missions. Proxima Centauri is a red dwarf star about 4.24 light-years distant inside the G-cloud in the constellation of Centaurus. It was discovered in 1915 by Robert Innes,

the Director of the Union Observatory in South Africa, and is the nearest known star to the Sun, although it is too faint to be seen with the naked eye. Because of the proximity of this star, its distance from the Sun and angular diameter can be measured directly, from which it can be determined that its diameter is about one-seventh of that of the Sun.

Proxima Centauri's mass is about an eighth of the Sun's, and its average density is about 40 times that of the Sun.

**Q5. Answer: (b)**

The Earth is farthest from the sun at the Aphelion on July 4, when it is summer in the Northern Hemisphere.

**Q6. Answer: (d)**

**Q7. Answer: (d)**

**Q8. Answer: (a)**

**Q9. Answer: (c)**

In the given condition, difference between seasons will be reduced.

**Q10. Answer: (d)**

- Hottest Planet – **Venus**
- Red Planet – **Mars**
- Dwarf Planet – **Pluto**
- Planet with lowest density – **Saturn**

**Q11. Answer: (c)**

**Q12. Answer: (b)**

Elements in the Earth's crust -

- Oxygen = 47%,
- Silicon = 28%,
- Calcium = 3.5%,
- Sodium = 3% and
- Magnesium = 2%

**Q13. Answer: (a)**

Copernicus discovered the solar system. Nicolaus Copernicus was a Renaissance mathematician and astronomer who formulated a heliocentric model of the universe which placed the Sun, rather than the Earth, at the center.

**Q14. Answer: (d)**

Venus is the brightest planet in our sky and can sometimes be seen with the naked eye if we know where to look. It is the solar system's brightest planet — yellow clouds of sulfuric acid reflect the sun's light brightly and has its orbit closest to sun but only next to mercury.

**Q15. Answer: (d)**

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