

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

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Created By [Careericons](#) Team

Q1. Gutenberg discontinuity separates

- a) Lower mantle from outer core
 - b) Outer core from the inner core
 - c) Upper mantle from lower mantle
 - d) Crust from the upper mantle
-

Q2. The planet nearest to the Sun is

- a) Venus
 - b) Pluto
 - c) Earth
 - d) Mercury
-

Q3. The theory suggesting that the continents of South America and Africa were once joined together was the

- a) Kant's theory
 - b) Ritter's theory
 - c) tetrahedral theory
 - d) continental drift theory
-

Q4. Match List-I with List-II and select the correct answer using the code given below the Lists:

List I	List II
(Geological time scale)	(Life-form)

A. Pleistocene	1. Mammals
B. Paleocene	2. Human genus
C. Permian	3. Invertebrates
D. Cambrian	4. Frogs

Codes: A B C D

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

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Q5. Composite volcanic cone is also called strata cone because of the

- a) cataclysmic eruption
- b) eruption of lava flow from a fissure
- c) uneven streams of lava flow
- d) alternating sheets of lava and pyroclastic materials

Q6. Consider the following diagram In the diagram given above, what does A denote ?

- a) Westerlies
- b) Easterlies
- c) Trade winds
- d) Doldrums

Q7. Methane is present in the **atmosphere** of

- a) Jupiter

- b) Mars
 - c) Sun
 - d) Moon
-

Q8. During the **Venus transit**, the planet appeared as a tiny black circle moving on the Sun. The black color on the Sun is because the planet :

- a) Was invisible due to bright rays from the Sun.
 - b) Behaved as a black hole during its transit.
 - c) Is black in colour.
 - d) Obstructed all light from the Sun.
-

Q9. Match List-I with List-II and select the correct answer from the codes given below the list:

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

Codes: A B C D

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

Q10. Which one of the following statements is **correct** with reference to our **solar system**?

- a) The sun contains 75 percent of the mass of the solar system
- b) The diameter of the sun is 190 times that of the earth
- c) The predominant element in the composition of earth is silicon

d) The earth is the densest of all the planets in our solar system

Q11. What is the **difference between asteroids and comets**?

- Asteroids are small rocky planetoids, while comets are formed of frozen gases held together by rocky and metallic material.
- Asteroids are found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.
- Comets show a perceptible glowing tail, while asteroids do not.

Which of the statements given above is/are **correct**?

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

Q12. Which of the following phenomenon is/are the **effect of the rotation of the Earth**?

- Apparent movement of the Sun, the Moon and the Stars.
- Flatness of the poles and bulge at the equator.
- Occurrence of sunrise, noon and sunset.
- Magnetic field of the Earth.

Select the **correct** answer by using the codes given below:

- a) 2 and 3 only
 - b) 1, 2, 3 and 4
 - c) 1 and 3 only
 - d) 1 and 2 only
-

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Q13. The two planets having **no satellite** are

- a) Mercury and Saturn

- b) Venus and Mars
 - c) Mercury and Venus
 - d) Earth and Jupiter
-

Q14. Which one of the following planets rotates clockwise?

- a) Venus
 - b) Mercury
 - c) Mars
 - d) Earth
-

Q15. Time taken by Moon's light to reach Earth is

- a) 1.58 sec
 - b) 2.32 sec
 - c) 1.34 sec
 - d) 58 sec
-

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (d)

Q3. Answer: (d)

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Q4. Answer: (c)

- Pleistocene - Human genus
- Paleocene - Frogs
- Permian - Mammals
- Cambrian – Invertebrates

Q5. Answer: (a)

Composite cone volcanoes, which are also called 'stratovolcanoes' or simply 'composite volcanoes,' are cone-shaped volcanoes composed of layers of lava, ash, and rock debris.

These steep-sided volcanoes erupt in an explosive manner. It is also called strata cone because of the cataclysmic eruption.

Q6. Answer: (d)

A region of the globe found over the oceans near the equator in the intertropical convergence zone and having weather characterized variously by calm air, light winds, or squalls and thunderstorms is called Doldrums.

Q7. Answer: (a)

Methane is present in the atmosphere of Jupiter. The atmosphere of Jupiter is the largest planetary atmosphere in the Solar System.

It is mostly made of molecular hydrogen and helium in roughly solar proportions; other chemical compounds are present only in small amounts and include methane, ammonia, hydrogen sulphide, and water.

Q8. Answer: (b)

The black color on the sun is because the planet behaved as a black hole during its transit. A transit of Venus across the Sun takes place when the planet Venus passes directly between the Sun and Earth (or another planet), becoming visible against (and hence obscuring a small portion of) the solar disk.

During a transit, Venus can be seen from Earth as a small black disk moving across the face of the Sun. The duration of such transits is usually measured in hours (the transit of 2012 lasted 6 hours and 40 minutes).

Q9. Answer: (d)

- **Uranus** is a planet.
- **Moon** is a satellite.
- **Halley** is a comet.
- **Mariner** is an artificial satellite.

The Mariner program was conducted by the American space agency NASA in conjunction with Jet Propulsion Laboratory (JPL) that launched a series of robotic interplanetary probes

designed to investigate Mars, Venus and Mercury from 1962 to 1973.

The program included a number of firsts, including the first planetary flyby, the first pictures from another planet, the first planetary orbiter, and the first gravity assist manoeuvre.

Q10. Answer: (d)

The earth is the densest of all the planets.

The density of,

1. Earth is 5.52,
2. Venus–5.50,
3. Mercury 5.27,
4. Mars – 3.95,
5. Jupiter and Saturn – 0.69,
6. Uranus – 11.70.

Q11. Answer: (c)

Q12. Answer: (b)

All the given phenomena are the effect of the rotation of the earth. The Earth rotates from the west towards the east.

As viewed from the North Star or polestar Polaris, the Earth turns counter-clockwise.

Q13. Answer: (c)

Q14. Answer: (a)

The planet Venus rotates clock wise. On Venus, the rotation is backwards, or clockwise, which is called retrograde. Standing on the surface of Venus, one would be able to see the sun rising from the west.

Q15. Answer: (c)

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