

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. Space between Earth and Moon is known as

- a) Nebula
 - b) None of these
 - c) Fulalunar
 - d) Cislunar
-

Q2. There are two statements, one labelled as the Assertion (A) and other as Reason (R). Examine these two statements carefully and select the correct answer by using the codes given below:

Assertion (A):

According to the Nova hypothesis, Solar planets were formed because of the explosion of Super Nova.

Reason (R):

A star becomes Super Nova in that stage when it has lacks hydrogen element.

Codes:

- a) A is true, but R is false.
 - b) A is false, but R is true.
 - c) Both A and R are true, but R is not the correct explanation of A.
 - d) Both A and R are true and R is the correct explanation of A.
-

Q3. Solar energy is received by the earth through

- a) convection
 - b) refraction
 - c) radiation
 - d) conduction
-

Q4. The mean radius of the Earth is

- a) 8400 km
- b) 12800 km
- c) 6400 km
- d) 3200 km

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Q5. Match List-I with List-II and select the correct answer from the codes given below:

List I	List II
(Era)	(Epoch)
A. Palaeozoic	1. Jurassic
B. Mesozoic	2. Archean
C. Pre Cambrian	3. Oligocene
D. Cainozoic	4. Silurian

Codes: A B C D

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

Q6. The **different phases of the moon** are caused by

- a) changing angle of sun
- b) none of these
- c) changing angle of sunlight hitting the moon
- d) changing angle of earth with respect to moon

Q7. The ring of Jupiter is composed of

- a) Very thick and opaque
 - b) All of the above
 - c) Non-existent
 - d) Silicates
-

Q8. Which of the following statements in regard to the galaxy is correct?

- a) A galaxy is a huge system of billions of stars and clouds of dust and gases
 - b) A galaxy does not have a sun
 - c) Galaxy is found between the orbits of Mars and Jupiter
 - d) Numerous tiny bodies that move around the sun are called galaxies
-

Q9. What explains the eastward flow of the **equatorial countercurrent**?

- a) Difference in salinity of water
 - b) Occurrence of the belt of calm near the equator
 - c) Convergence of the two equatorial currents
 - d) The Earth's rotation on its axis
-

Q10. Which of the given two planets are between Mars and Uranus in order of distance from Sun?

- a) Saturn and Earth
 - b) Saturn and Neptune
 - c) Jupiter and Saturn
 - d) Earth and Jupiter
-

Q11. Which one of the following statements is/ are **correct** with regard to Milky Way?

- It is a spiral galaxy.
- The solar system resides in one of its spiral arms.

Select the **correct** answer using the code given below:

- a) Both 1 and 2
 - b) Neither 1 nor 2
 - c) 2 only
 - d) 1 only
-

Q12. Which of the following planets does not have satellite?

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

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Q13. A spinning neutron star is known as

- a) Pulsar
 - b) Quasar
 - c) Black hole
 - d) White dwarf
-

Q14. What is the unit of measurement of distance between celestial bodies ?

- a) Light year
 - b) Kilometre
 - c) Statute mile
 - d) Nautical mile
-

Q15. The Earth is nearest to the Sun on

- a) 22nd March
- b) 21st September
- c) 4th July
- d) 3rd January

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Answers to the above questions :

Q1. Answer: (d)

Space between Earth and Moon is known as Cislunar. Pertaining to the space between the earth and the orbit of the moon.

Q2. Answer: (c)

According to the Nova hypothesis, Solar planets were formed because of the explosion of Super Nova. A star becomes Super Nova in that stage when it has lacks hydrogen elements. A supernova happens where there is a change in the core, or center, of a star.

A change can occur in two different ways, with both resulting in a supernova. The first type of supernova happens in binary star systems. Binary stars are two stars that orbit the same point. One of the stars, a carbon-oxygen white dwarf, steals matter from its companion star. Eventually, the white dwarf accumulates too much matter. Having too much matter causes the star to explode, resulting in a supernova. The second type of supernova occurs at the end of a single star's lifetime. As the star runs out of nuclear fuel, some of its mass flows into its core.

Eventually, the core is so heavy that it cannot withstand its own gravitational force. The core collapses, which results in the giant explosion of a supernova. The sun is a single star, but it does not have enough mass to become a supernova.

Q3. Answer: (c)

In physics, radiation is a process in which energetic particles or energetic waves travel through a vacuum, or through matter-containing media that are not required for their

propagation. The Earth receives 174 petawatts (PW) of incoming solar radiation (insolation) at the upper atmosphere.

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Q4. Answer: (c)

Q5. Answer: (c)

1. **Palaeozoic** – Silurian (The Silurian is a geologic period and system spanning 24.6 million years from the end of the Ordovician Period, at 443.8 million years ago (Mya), to the beginning of the Devonian Period, 419.2 Mya. As with other geologic periods, the

rock beds that define the period's start and end are well identified, but the exact dates are uncertain by several million years. The base of the Silurian is set at a major Ordovician-Silurian extinction event when 60% of marine species were wiped out.

2. **Mesozoic** – Jurassic (The dinosaurs went extinct 65 million years ago. The Mesozoic Era lasted about 180 million years and is divided into three periods, the Triassic, the Jurassic, and the Cretaceous. Each of these periods is divided into many epochs and ages. Mesozoic means “Middle Animal” and is sometimes called the age of reptiles.)
3. **Pre Cambrian** – Archean (The Precambrian (or Pre-Cambrian, sometimes abbreviated p?) is the earliest period of Earth's history, set before the current Phanerozoic Eon. The Precambrian (coloured green on the right) is a supereon that is subdivided into three aeons (Hadean, Archean, Proterozoic) of the geologic time scale.)
4. **Cainozoic** – Oligocene (The Cainozoic (Cenozoic) is the current geological era. It began 66 million years ago and continues today. Before it was the Mesozoic. During the Cainozoic, the continents moved into their present positions.)

Q6. Answer: (d)

The different phases of the moon are caused by changing the angle of the earth with respect to moon. The moon's phases are a result of the moon's orbit around the earth as it reflects the sun's light.

The lunar phases vary cyclically as the Moon orbits the Earth, according to the changing relative positions of the Earth, Moon, and Sun.

Q7. Answer: (d)

Q8. Answer: (a)

A galaxy is a huge system of billions of stars and clouds of dust and gases.

Q9. Answer: (d)

The Earth's rotation on its axis explains the eastward flow of the equatorial counter-current. The earth would have been rotating east to west, the piled-up water would have come down on the west side.

Therefore, essentially it's the earth's rotation that explains the eastward flow of equatorial counter current.

Q10. Answer: (c)

Q11. Answer: (a)

The Milky Way is the Galaxy in which we live. It is a spiral-shaped galaxy that contains several hundred billion stars, including our Sun. It is about 100,000 light-years across and about 10,000 light-years thick.

If you are at a place that has a very dark night sky, you can sometimes see the Milky Way as a thick band of stars in the sky. We live out in the suburbs of the Milky Way - not near the center, but not near the edge either.

Q12. Answer: (b)

Q13. Answer: (a)

Pulsars are spinning neutron stars that have jets of particles moving almost at the speed of light streaming out above their magnetic poles. These jets produce very powerful beams of light.

Q14. Answer: (a)

Q15. Answer: (d)

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