

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. Lunar eclipse occurs

- a) When sun lies between earth and moon
 - b) None of these
 - c) When earth lies between sun and moon
 - d) When moon lies between earth and sun
-

Q2. Which planet in our solar system is **nearly as big as** the earth ?

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

Q3. In the structure of planet Earth, below the mantle, the core is mainly made up of which one of the following?

- a) Iron
 - b) Silicon
 - c) Chromium
 - d) Aluminium
-

Q4. Match the following List-I & II with Longitudes & Dates

List I	List II
(Longitudes)	(Dates)

A. Prime Meridian	1. 180° longitude
B. Tropic of Cancer	2. 23½° N latitude
C. International Date Line	3. 0° longitude
D. Arctic Circle	4. 23½° S latitude
E. Tropic of Capricorn	5. 66½° N latitude

Codes: A B C D E

- a) 3 1 4 5 2
- b) 3 4 5 2 1
- c) 3 2 1 5 4
- d) 2 4 5 1 3

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Q5. Consider the following statements:

- The albedo of an object determines its visual brightness when viewed with reflected light.
- The albedo of Mercury is much greater than the albedo of the Earth.

Which of the statement(s) given above is/are **correct**?

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

Q6. Which of the following statements regarding the duration of day and night is **correct**?

- a) Difference is least at the Tropics and progressively increases towards the Equator and Poles
- b) Difference is maximum at the Tropics and progressively decreases towards the Equator and Poles
- c) Difference is maximum at the Equator and progressively decreases away from it

d) Difference is least near the Equator and progressively increases away from it

Q7. The longitude of a place is its

- a) angular distance east or west of International Date Line
 - b) angular distance with respect to the pole star
 - c) angular distance north or south of the equator
 - d) angular distance east or west of the prime meridian
-

Q8. Which of the following **does not belong** to the solar system?

- a) Planets
 - b) Nebulae
 - c) Comets
 - d) Asteroids
-

Q9. Lunar eclipse occurs

- a) When sun lies between earth and moon
 - b) None of these
 - c) When earth lies between sun and moon
 - d) When moon lies between earth and sun
-

Q10. Which one among the following statements is **not correct**?

- a) Places having same longitude experience solar noon at different times
 - b) Solar noon occurs at different times at locations with the same latitude
 - c) One meridian, which is directly under the Sun, experiences solar noon at a given time
 - d) Solar noon occurs simultaneously at locations with the same longitude
-

Q11. Match List-I with List-II and select the correct answer using the codes given below the lists:

List I	List II
(Planets)	(Satellites)
A. Mars	1. Tethys
B. Jupiter	2. Deimos
C. Saturn	3. Europa
D. Uranus	4. Titania

Codes: A B C D

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

Q12. Which is the smallest planet of solar system?

- a) Uranus
- b) Jupiter
- c) Mercury
- d) Venus

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Q13. We always see the same face of the Moon because

- a) it revolves on its axis in a direction opposite to that of the Earth.
 - b) it is smaller than the Earth.
 - c) it takes equal time for revolution around the Earth and rotation on its own axis.
 - d) it rotates at the same speed as the Earth around the Sun.
-

Q14. 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

Q15. Which is the **hottest planet** in the Solar System?

- a) Venus
- b) Uranus
- c) Saturn
- d) Jupiter

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Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (a)

Venus is sometimes called as Earth's twin planet, in terms of size and composition. Like the earth, Venus is covered with thick clouds and has an atmosphere.

,p>There is almost the same amount of gravity on Venus but the pressure on the planet is about 100 times bigger than on Earth.

Q3. Answer: (a)

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Q4. Answer: (c)

1. A prime meridian is a meridian (a line of longitude) in a geographical coordinate system at which longitude is defined to be 0°. A prime meridian and its opposite in a 360°-system, the 180th meridian (at 180° longitude), form a great circle. This great circle divides the sphere, e.g., the Earth, into two hemispheres.
2. The Tropic of Cancer also referred to as the Northern Tropic, is the most northerly circle of latitude on the Earth at which the Sun may appear directly overhead at its culmination.
3. The International Date Line (IDL) is an imaginary line of longitude on the Earth's surface located at about 180 degrees east (or west) of the Greenwich Meridian.
4. Arctic Circle is an imaginary circle around the earth, parallel to the equator, at latitude 66° 32' N; it marks the northernmost point at which the sun appears above the level of the horizon on the winter solstice.
5. Tropic of Capricorn is the parallel of latitude that is approximately 23 1/2° degrees south of the equator and that is the southernmost latitude reached by the overhead sun.

Q5. Answer: (d)

The albedo of an object determines its visual brightness when viewed with reflected light. Albedo is the fraction of solar energy (shortwave radiation) reflected from the Earth back into space.

It is a measure of the reflectivity of the earth's surface.

Q6. Answer: (d)

On the equator, the day and night stay approximately the same length all year round.

Q7. Answer: (d)

Longitude is measured in degrees East or West of the Prime Meridian.

Q8. Answer: (b)

A nebula is an interstellar cloud of dust, hydrogen, helium, and other ionized gases. Originally, nebula was a name for any extended astronomical object, including galaxies beyond the Milky Way.

The Andromeda Galaxy, for instance, was referred to as the Andromeda Nebula before galaxies were discovered by Edwin Hubble.

Q9. Answer: (c)

Q10. Answer: (c)

The meridian passing through Greenwich, England, designated as the zero meridian (0°) that is directly under the sun experiences solar noon at a given time.

Q11. Answer: (c)

1. Deimos is the satellite of Mars.
2. Europa is the satellite of Jupiter.
3. Tethys is the satellite of Saturn.
4. Titan is the satellite of Uranus.

Q12. Answer: (c)

Mercury is the smallest planet of solar system.

Q13. Answer: (c)

We always see the same face of moon because it takes equal time for revolution around the earth and rotation on its own axis.

Q14. Answer: (a)

The Milky Way galaxy is the home of our solar system. It is very difficult to study this galaxy because the solar system is located within it. It seems to be a spiral galaxy.

Q15. Answer: (a)

Mercury is closer to the sun, but the atmosphere on Venus actually makes it hotter. Even on the night side, the temperature doesn't drop by much (comparatively) because of the carbon dioxide, about 95%, atmosphere.

The atmospheric pressure of Venus is also about 90 times greater than that of Earth.

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