

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

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Created By [Careericons](#) Team

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**Q1.** The approximate diameter of Earth is

- a) 3400 km
  - b) 12800 km
  - c) 6400 km
  - d) 4200 km
- 

**Q2.** Consider the following statements.

- The axis of the Earth's magnetic field is inclined at 23 and half degree to the geographic axis of the Earth.
- The Earth's magnetic pole in the Northern hemisphere is located on a peninsular in Northern Canada.
- Earth's magnetic equator passes through Thumba in South India.

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

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

**Q3.** The chronometer is used for

- a) Keeping correct time
  - b) Measuring earthquakes
  - c) Measuring rock-density
  - d) Measuring distance
-

**Q4.** Which of the following pairs of planets is without satellites?

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

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**Q5.** The distance between two consecutive longitudes ( $91^{\circ}\text{E}$  and  $92^{\circ}\text{E}$ ) at the Poles is

- a) 25 km
- b) 111 km
- c) 18 km
- d) 0 km

**Q6.** According to the Geo-scientists, the shape of the earth is:

- round
- spherical
- close to that of a sphere
- an oblate ellipsoid

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

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

**Q7.** The number of satellites of the planet Mercury is

- a) 2

- b) 16
  - c) 1
  - d) 0
- 

**Q8.** Which one of the following conditions is most relevant for the presence of life on mars?

- a) Occurrence of ice cap and frozen water
  - b) Occurrence of ozone
  - c) Thermal conditions
  - d) Atmospheric composition
- 

**Q9.** The Astronaut looks the sky in the space

- a) Red
  - b) White
  - c) Black
  - d) Blue
- 

**Q10.** By how much degree the earth is inclined on its own Axis

- a)  $24\frac{1}{2}$
  - b)  $69\frac{1}{2}$
  - c)  $66\frac{1}{2}$
  - d)  $23\frac{1}{2}$
- 

**Q11.** What is meant by the term "Midnight Sun"?

- a) Very bright moon
- b) Sun shining in the polar circle for long time
- c) Rising sun
- d) Twilight

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**Q12.** 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.

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**Q13. Statement I:**

Doldrums is a calm belt between  $5^{\circ}\text{N}$  and  $5^{\circ}\text{S}$  of the equator.

**Statement II:**

The sun rays strike almost vertically over the equator throughout the year.

Code:

- a) Statement I is true but Statement II is false.
- b) Statement I is false but Statement II is true.
- c) Both the statements are individually true but Statement II is not correct explanation of Statement I
- d) Both the statements are individually true and Statement II is the correct explanation of Statement I

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**Q14.** Every Solar eclipse occurs on

- a) Amavasya only
  - b) Poornima only
  - c) Both (A) and (B)
  - d) Neither (A) nor (B)
-

**Q15. Statement I :**

Sideral day is shorter than Solar day.

**Statement II :**

The motion of the Earth in its orbit around the Sun is termed as revolution.

Code:

- a) Statement I is true but statement II is false.
- b) Statement I is false but Statement II is true
- c) Both the statements are individually true but statement II is not the correct explanation of statement I
- d) Both the statements are individually true and statement II is the correct explanation of statement I

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**Answers to the above questions :**

**Q1. Answer: (b)**

The approximately diameter of Earth is 12800 km. The rotation of the planet has slightly flattened it out, so it has a larger diameter at the equator than at the poles.

The equatorial diameter of Earth is 12,756 km, its polar diameter is 12,713 km, and its average diameter, which is referred to in common usage, is 12,742 km or 7,926 miles.

**Q2. Answer: (b)**

**Q3. Answer: (a)**

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**Q4. Answer: (b)**

**Q5. Answer: (d)**

The distance between two consecutive longitudes at the poles is 0 KM. A degree of longitude is widest at the equator at 69.172 miles (111.321) and gradually shrinks to zero at the poles.

**Q6. Answer: (b)**

The simplest model for the shape of the entire Earth is a sphere. The Earth's radius is the distance from Earth's center to its surface, about 6,371 kilometers (3,959 mi).

Earth is only approximately spherical, so no single value serves as its natural radius. Since the Earth is flattened at the poles and bulges at the equator, geodesy represents the shape of the earth with an oblate spheroid.

The oblate spheroid, or oblate ellipsoid, is an ellipsoid of revolution obtained by rotating an ellipse about its shorter axis.

**Q7. Answer: (d)**

The nearness of Mercury to the massive gravity influence of the Sun is the likely reason that no natural satellites are present, although it is possible that one or more may have existed in the past.

**Q8. Answer: (a)**

**Q9. Answer: (c)**

The sky looks black from the space. In space, sunlight or any kind of star light does not have anything from which to bounce off.

**Q10. Answer: (d)**

**Q11. Answer: (a)**

Midnight Sun Occurs in Polar region in Summer months where sun remains visible at local midnight.

**Q12. Answer: (d)**

The Earth is the densest planet in the solar system. The density of Earth is 5.513g/cm<sup>3</sup>. This is an average of all the material on the planet.

**Q13. Answer: (c)**

Doldrums a zone of light, calm (westerly) winds in equatorial latitude, applicably largely to oceans, moves few degrees N and S of the equator. Sun fall vertically over the equator, causing 12 hour day 12 hour night.

**Q14. Answer: (a)**

**Q15. Answer: (c)**

The sidereal day is the time it takes for the Earth to complete one rotation about its axis with respect to the 'fixed' stars.

By fixed, we mean that we treat the stars as if they were attached to an imaginary celestial sphere at a very large distance from the Earth. A measurement of the sidereal day is made by noting the time at which a particular star passes the celestial meridian (i.e. directly overhead) on two successive nights.

On Earth, a sidereal day lasts for 23 hours 56 minutes 4.091 seconds, which is slightly shorter than the solar day measured from noon to noon. At the same time that the Earth spins on its axis, it also orbits or revolves around the Sun. This movement is called revolution.

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