

# 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.** 'Big Bang theory' is related to

- a) Origin of the Himalayas
  - b) Eruption of Volcanoes
  - c) Origin of the Universe
  - d) Continental Drifts
- 

**Q2.** What is the time taken by the Earth to complete one rotation on its axis?

- a) 24 hr
  - b) 24 hr 12 min 6 sec
  - c) 23 hr 56 min 4 sec
  - d) 23 hr 52 min 4 sec
- 

**Q3.** The mass of Jupiter is approximately

- a) one hundredth of the solar mass
  - b) half the solar mass
  - c) one thousandth of the solar mass
  - d) one tenth of the solar mass
- 

**Q4.** In which situation Lunar eclipse occurs?

- a) Full Moon
- b) None of these
- c) New Moon

d) Half Moon

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**Q5.** The Astronaut looks the sky in the space

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

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**Q6.** Which one of the following may have alien life because of a very conducive environment to life?

- a) Europa-The Jupiter's Moon
- b) Moon-The Earth's Moon
- c) Mars
- d) Jupiter

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**Q7.** In the form of organism, the Scientific name of Earth is

- a) Green Planet
- b) Harmij
- c) Sita
- d) Cow

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**Q8.** One Astronomical unit is average distance

- a) Between Jupiter and Sun
- b) Between Neptune and Sun

- c) Between Earth and Moon
  - d) Between Earth and Sun
- 

**Q9.** 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
- 

**Q10.** Which of the following correctly explains Kepler's first law of Planetary Motion?

- a) The square of the time period of a planet is proportional to the cube of the semimajor axis of the ellipse
  - b) None of the above
  - c) The radius vector from the sun to the planet sweeps equal area in equal time
  - d) All the planets move in elliptical orbits with the sun at a focus
- 

**Q11.** What is the most accurate description of the shape of the earth ?

- a) A geoid
  - b) An oblate sphere
  - c) A sphere
  - d) A circle
- 

**Q12.** How much time does the light from the nearest star take in reaching the earth ?

- a) 4.3 hours
- b) 4.3 years

c) 4.3 minutes

d) 12 minutes

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**Q13.** Which planets do not have satellites revolving around them ?

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

**Q14. DIRECTIONS :**

The following question consist of two statements, one labelled as 'Assertion (A)' and the other as 'Reason (R)'. You are to examine these two statements carefully and select the correct answers to these questions using the codes given below.

**Assertion (A)**

The equatorial regions bulge outwards by about 21 km compared to poles.

**Reason (R)**

Earth's slow rotation reduces the effect of gravity around the equator.

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

**Q15.** 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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### Answers to the above questions :

**Q1. Answer: (c)**

**Q2. Answer: (c)**

The time taken by the Earth to complete one rotation on its axis is 23 hr-56 min 4 sec.

**Q3. Answer: (c)**

Jupiter's radius is about 1/10 the radius of the Sun, and its mass is 0.001 times the mass of the Sun.

Jupiter's mass is 2.5 times that of all the other planets in the Solar System combined—this is so massive that its barycenter with the Sun lies above the Sun's surface at 1.068 solar radii from the Sun's center.

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**Q4. Answer: (a)**

**Q5. 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.

**Q6. Answer: (a)**

**Q7. Answer: (a)**

**Q8. Answer: (d)**

**Q9. Answer: (d)**

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

**Q10. Answer: (d)**

Kepler's First law of Planetary Motion States that all the planets move in elliptical orbits with the sun at a focus.

**Q11. Answer: (b)**

**Q12. Answer: (b)**

**Q13. Answer: (c)**

Of the nine planets, only Venus and Mercury have no known natural satellites. A total of 139 moons, or natural satellites, can be found in the vast solar system.

**Q14. Answer: (d)**

**Q15. 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.

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