

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

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**Q1.** We always see the same face of the moon because

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

**Q2.** The energy of sun is produced by

- a) Nuclear fusion
  - b) Oxidation
  - c) Ionisation
  - d) Nuclear fission
- 

**Q3.** Which planet takes the **longest time** to go around the sun?

- a) Uranus
  - b) Neptune
  - c) Jupiter
  - d) Earth
- 

**Q4.** In the following diagram, an eclipse is represented. Which statement is correct about it ?

- a) The diagram represents a lunar eclipse, A is the earth and B is the moon
- b) The diagram represents a total solar eclipse

c) The diagram represents a solar eclipse, A is the earth and B is the moon

d) The diagram represents a lunar eclipse, A is the moon and B is the earth

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**Q5.** On which date is India likely to experience the **shortest day**?

a) June 22

b) September 23

c) March 21

d) December 22

**Q6.** Which of the following is not a planet?

a) Mars

b) Mercury

c) Earth

d) Moon

**Q7.** How much is the mass of the moon when compared with that of the earth ?

a)  $1/51$

b)  $1/8$

c)  $1/81$

d)  $1/49$

**Q8.** The scientist who first discovered that the Earth revolves round the Sun was

a) Copernicus

b) Einstein

- c) Dalton
  - d) Newton
- 

**Q9.** A ball thrown outside from an artificial satellite revolving round the Earth will

- a) Fall on the Earth
  - b) Revolve round the Earth in the same orbit with the same time period as satellite
  - c) Go to the Moon
  - d) Go to the Sun
- 

**Q10.** Greenwich mean time is \_\_\_\_\_ IST.

- a) 4.5 hours behind
  - b) 5.5 hours behind
  - c) 12 hours ahead
  - d) 5.5 hours ahead
- 

**Q11.** The possibility of desert on Earth is more

- a) Nearby  $50^\circ$  latitude
  - b) Nearby  $70^\circ$  latitude
  - c) Nearby  $23^\circ$  latitude
  - d) Nearby  $0^\circ$  latitude
- 

**Q12.** 'Super Nova' is

- a) A comet
- b) A dying star
- c) A black hole
- d) An asteroid

**Q13.** Which one of the following planets is the brightest?

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

**Q14.** The tail of a comet is **directed away** from the sun because

- a) The radiation emitted by the sun exerts a radial pressure on the comet throwing its tail away from the Sun.
- b) The tail of the comet always exists in the same orientation.
- c) the comet rotates, the lighter mass of the comet is attracted by some star situated in the direction of its tail.
- d) the comet rotates around the sun, the lighter mass of the comet is pushed away due to the centrifugal force alone.

**Q15.** Hydrogen, Helium and Methane are the main gases present on

- a) Uranus, Neptune and Venus
- b) Mars and Venus
- c) Jupiter, Saturn and Mars
- d) Uranus, Neptune and Mars

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (a)**

**Q3. Answer: (b)**

Neptune takes the longest time to go around the sun. Neptune orbits the Sun at an average distance of 4.5 billion km.

Like all the planets in the Solar System, Neptune follows an elliptical path around the Sun, varying its distance to the Sun at different points along its orbit.

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**Q4. Answer: (a)**

**Q5. Answer: (d)**

21-23 December, also known as the winter solstice, is the shortest day of the year in the northern hemisphere. India, being in the northern hemisphere, experiences its shortest day and longest night on this very day.

The winter solstice occurs at the moment when the North Pole is tilted furthest away from the sun.

**Q6. Answer: (d)**

**Q7. Answer: (c)**

**Q8. Answer: (a)**

**Q9. Answer: (b)**

**Q10. Answer: (b)**

**Q11. Answer: (c)**

**Q12. Answer: (b)**

**Q13. Answer: (a)**

**Q14. Answer: (d)**

Because of the comet rotation around the sun, the lighter mass of the comet is pushed away due to the centrifugal force alone. When a comet comes close enough to the sun, the ice begins to melt at such a great pace that sublimation occurs.

The sublimation of the ice that carries away dirt and rock causes the appearance of a large white fireball with a long tail. The layer that envelopes the comet is called the coma. A tail of dust particles, hydrogen, or ions extends more than a million miles away from the comet.

**Q15. Answer: (c)**

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