

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

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

Q2. How much time does earth take in completing one rotation on its axis in relation to sun ?

- a) 24 hours 4 minutes
 - b) 24 hours and 6 minutes
 - c) 23 hours 56 minutes
 - d) 24 hours
-

Q3. Which is a celestial phenomenon occurring due to stars?

- a) Rainbow
 - b) Comet
 - c) Black hole
 - d) Ozone hole
-

Q4. Which of the following are **true** with respect to **fold mountains**?

- Their tops are often buried beneath snow and ice.
- They form rugged peaks.
- They are caused by contraction of the earth's crust.
- They contain a core composed of metamorphic and igneous rocks.

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

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Q5. Statement (A):

Moving from one place on Earth to another place of high latitude, the weight of an object decreases.

Reason (R):

Earth is not perfect sphere.

Choose the correct answer by using code given below.

- a) (A) is true, but (R) is wrong
- b) (A) is wrong, but (R) is true
- c) (A) and (R) both are true, but (R) does not explains (A) properly
- d) (A) and (R) both are true and (R) explains (A) properly

Q6. Which of the following is called the twin of the earth ?

- a) Mars
- b) Saturn
- c) Venus
- d) Neptune

Q7. The inexhaustible source of energy of the stars is due to

- a) conversion of Helium to Hydrogen.
- b) excess of oxygen that helps burning and release of energy.

- c) conversion of Hydrogen to Helium.
 - d) decay of radioactive elements.
-

Q8. When any object is taken from the Earth to the Moon

- a) There is no change in its weight
 - b) It becomes totally weightless
 - c) Its weight decreases
 - d) Its weight increases
-

Q9. Consider the following statements:

- The Earth is nearest to the Sun on about January 3.
- Earth is farthest from the Sun on about July

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

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

Q10. The coriolis effect is produced by

- a) earth's rotation
 - b) earth's rotation and revolution
 - c) earth's revolution
 - d) pressure gradient
-

Q11. 'Super nova' is

- a) an exploding Star
- b) a black hole
- c) an asteroid

d) a comet

Q12. On which date is the earth in perihelion ?

- a) January 3
- b) July 4
- c) Dec 22
- d) June 21

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Q13. The planet emitting green light is

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

Q14. The inexhaustible **source of energy** of the stars is due to

- a) decay of radioactive elements
 - b) excess of oxygen that helps burning and release of energy
 - c) conversion of helium to hydrogen
 - d) conversion of hydrogen to helium
-

Q15. Study the following statements and select the **correct** answer from the codes given below:

- The average density of rocks in the lower crust of the earth is 3.
- There is a gradual decrease in the velocity of the seismic waves through the lower crust.
- The mantle-core boundary is marked by Moho-discontinuity.
- The outer core of the earth is in molten form.

Codes:

- a) 3 and 4 are correct
- b) 1 and 4 are correct
- c) 2 and 3 are correct
- d) 1 and 2 are correct

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Answers to the above questions :

Q1. Answer: (d)

Earth is inclined by 23 1/2 degree on its axis.

Q2. Answer: (d)

Q3. Answer: (c)

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Q4. Answer: (d)

Q5. Answer: (b)

Q6. Answer: (c)

Venus is the second planet from the sun and a close neighbor to the earth. It was named after the Roman Goddess of Beauty. Venus is usually one of the brightest objects in the sky, which might be the reason it got its name. It is quite similar to the planet earth mainly in its size and a few other characteristics which is why it is often considered the Earth's twin.

However, surface conditions are not nearly the same making it a quite inhospitable environment.

Q7. Answer: (c)

The inexhaustible source of energy of the stars is due to the conversion of Hydrogen to Helium. In the interior of a star, the particles move rapidly in every direction because of the high temperatures present. Every so often a proton moves close enough to a nucleus to be captured, and a nuclear reaction takes place.

Only protons of extremely high energy (many times the average energy in a star such as the Sun) are capable of producing nuclear events of this kind. A minimum temperature required for fusion is roughly 10 million K. Since the energies of protons are proportional to temperature, the rate of energy production rises steeply as temperature increases.

Q8. Answer: (c)

Q9. Answer: (a)

The earth is nearest to the sun on about January 3rd. Earth is farthest from the sun on about 4th July.

Q10. Answer: (a)

The Coriolis effect is the apparent deflection of global winds, ocean currents that moves freely across the Earth's surface. The deflection is due to the rotation of the Earth on its axis.

Q11. Answer: (a)

A supernova is a stellar explosion that is more energetic than a nova. During this short interval, a supernova can radiate as much energy as the Sun is expected to emit over its entire life span.

The explosion expels much or all of a star's material at a velocity of up to 30,000 km/s (10% of the speed of light).

Q12. Answer: (a)

The Earth is closest to the Sun or at the perihelion on January 3, when it is winter in the Northern Hemisphere.

Q13. Answer: (a)

The atmosphere of Uranus is composed of 83% hydrogen, 15% helium, 2% methane and small amounts of acetylene and other hydrocarbons. Methane in the upper atmosphere absorbs red light, giving Uranus its blue-green colour.

Q14. Answer: (d)

A star shines due to thermonuclear fusion of hydrogen into helium in its core, releasing energy that traverses the star's interior and then radiates into outer space.

Q15. Answer: (b)

The crust is the outermost solid shell of a rocky planet or natural satellite, which is chemically distinct from the underlying mantle.

The Earth's crust is composed of distinctly different continental crust and oceanic crust, which have different chemical compositions and physical properties, and which were formed by different geological processes.

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