

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. Oxygen built up in the Earth's atmosphere because:

- a) algae and other organisms employed photosynthesis.
 - b) oxygen settled on Earth from planets further from the sun.
 - c) rocks weathered and released their oxygen.
 - d) the ocean separated from the crust.
-

Q2. Which of the following statements is correct?

- a) Pluto has been given the number 134340
 - b) All of the above
 - c) Pluto was discovered by Clyde Tombaugh in 1930
 - d) Pluto is not a Planet now
-

Q3. Which planet is called the evening star?

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

Q4. Are the orbits of the planets on the same plane?

- Yes, more or less
- No, they're all over the place.
- Only first four planets are on the same plane.

Choose the **correct** code from the above statements:

- a) 2 only
- b) None of these
- c) 1 and 3 only
- d) 1 only

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Q5.

List I	List II
(Volcano)	(Country)
A. Semeru	1. Indonesia
B. Cotopaxi	2. Ecuador
C. Etna	3. Italy
D. Kilimanjaro	4. Kenya
	5. India

Codes: A B C D

- a) A - 1; B - 4; C - 3; D - 2
- b) A - 3; B - 2; C - 5; D - 4
- c) A - 3; B - 4; C - 5; D - 2
- d) A - 1; B - 2; C - 3; D - 4

Q6. The number of planet in solar system is

- a) 12
- b) 21
- c) 8
- d) 7

Q7. The energy of sun is produced by

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

Q8. Match the **planets** with their **properties** and accordingly select the correct alternative:

List I	List II
(Planet)	(Property)
A. Saturn	1. Longest year
B. Neptune	2. 71% water
C. Earth	3. Longest day
D. Venus	4. Having most moons

Codes: A B C D

- a) A – ii, B – iv, C – i, D - iii
 - b) A – iv, B – iii, C – ii, D - i
 - c) A – iii, B – ii, C – iv, D - i
 - d) A – iv, B – i, C – ii, D - iii
-

Q9. Which of the following factors influence **ocean currents**?

- Rotation of the Earth
- Air pressure and wind
- Ocean water density
- Revolution of the Earth

Select the **correct** answer using the codes given below

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

Q10. For one revolution around the Sun, Uranus takes

- a) 18 years
 - b) 48 years
 - c) 36 years
 - d) 84 years
-

Q11. The coldest planet in the Solar System is

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

Q12. Consider the following statements:

- Our solar system is located in the orion arm of the Milky way galaxy, about two-third of the way out from the centre.
- The solar system formed from an interstellar cloud of dust and gas or nebulla about 4.6 billion years ago.

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

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

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Q13. Match List-I with List-II and select the correct answer using the codes given below the lists:

List I	List II
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(Planets)	(Satellites)
A. Earth	1. Tritan
B. Jupiter	2. Titan
C. Saturn	3. Ganymede
D. Neptune	4. Moon

Codes: A B C D

a) 4 3 1 2

b) 3 4 2 1

c) 2 1 3 4

d) 1 2 3 4

Q14. The Earth's surface receives maximum energy at 12 noon but the maximum temperature never occurs at 12 noon. State which of the following reasons are **correct**?

- Transformation of solar energy into heat requires some time.
- The loss of energy through long-wave radiations from the Earth's surface exceeds the energy received from the Sun at 4:00 p.m.
- Energy received by the Earth from solar radiations continues to exceed the energy lost by outgoing long-wave radiations from the Earth's surface up to 4:00 p.m.

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

a) 1 and 3 only

b) 1, 2 and 3

c) 2 and 3 only

d) 1 and 2 only

Q15. The **outermost layer of the sun** is called

a) Photosphere

b) Corona

c) Chromosphere

d) Lithosphere

Answers to the above questions :

Q1. Answer: (a)

Earth's early atmosphere contained only small amounts of free oxygen, probably produced entirely by the reaction of sunlight with water vapor from volcanoes. The oxygen-rich atmosphere that evolved later, and upon which oxygen-breathing life now depends, was a result of the origin of photosynthesis.

During the Precambrian, vast numbers of single-celled algae and cyanobacteria living in the seas eventually released enough oxygen to transform the environment.

Q2. Answer: (b)

Pluto was discovered by Clyde Tombaugh in 1930. According to International Astronomical Union (IAU) on August 24, 2006, Pluto is considered a dwarf planet. According to the definition, there are currently eight planets and five dwarf planets known in the solar system.

The five dwarf planets are Pluto, Ceres, Eris, Makemake and Haumea. Pluto has been given number 134340.

Q3. Answer: (a)

Venus 'overtakes' the Earth every 584 days as it orbits the Sun.

As it does so, it changes from the 'Evening Star', visible after sunset, to the 'Morning Star', visible before sunrise.

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Q4. Answer: (d)

Yes, the planets orbit in or close to a plane around the sun called the ecliptic.

The ecliptic is inclined 7 degrees from the planet of the Sun's equator.

Q5. Answer: (d)

A. Semeru Volcano is situated in Indonesia.

B. Cotopaxi Volcano is situated in Ecuador.

C. Etna Volcano is situated in Italy.

D. Kilimanjaro Volcano is situated in Kenya.

Q6. Answer: (c)

Q7. Answer: (a)

Q8. Answer: (d)

As the furthest orbiting planet in the Solar System,

- Neptune has the longest year, taking 164.8 Earth years to complete a single orbit of the Sun.
- Saturn has the most moons i.e. 62.
- Earth has 71% water.
- Venus has the longest day of any planet in our solar system. It completes one rotation every 243 Earth days. Its day lasts longer than its orbit. It orbits the Sun every 224.65 Earth days, so a day is nearly 20 Earth days longer than its year.

Q9. Answer: (c)

A ocean current is a continuous, directed movement of ocean water generated by the forces acting upon this mean flow, such as breaking waves, wind, coriolis effect, cabbeling, temperature and salinity differences and tides caused by the gravitational pull of the Moon and the Sun.

Q10. Answer: (d)

Q11. Answer: (d)

Q12. Answer: (a)

Our solar system is located in the Orion arm of the milky way galaxy, about two-thirds of the way out from the center.

The sun is about 26,000 light-years from the center of the Milky Way Galaxy, which is about 80,000 to 120,000 light-years across (and less than 7,000 light-years thick). We are located on one of its spiral arms, out towards the edge.

It takes the sun (and our solar system) roughly 200-250 million years to orbit once around the Milky Way. In this orbit, we (and the rest of the Solar System) are traveling at a velocity of about 155 miles/sec (250 km/sec).

Q13. Answer: (a)

1. Moon is the satellite of Earth.
2. Ganymede is the satellite of Jupiter.
3. Triton is the satellite of Neptune.
4. Titan is the satellite of Saturn.

Q14. Answer: (a)

Transformation of solar energy into heat requires some time, energy received by the earth from solar radiations continues to exceed the energy lost by outgoing long-wave radiations from the earth's surface from 4.00p.m.

Q15. Answer: (b)

The corona is the outermost layer of the Sun, starting at about 1300 miles (2100 km) above the solar surface (the photosphere).

The temperature in the corona is 500,000 K (900,000 degrees F, 500,000 degrees C) or more, up to a few million K. The corona cannot be seen with the naked eye except during a total solar eclipse.

The corona does not have an upper limit.

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