

Class-v

Subject-Science

Chapter-08 (The Universe)

Lecture-03 || Class Date- 16/06/2020

Motion of the moon:

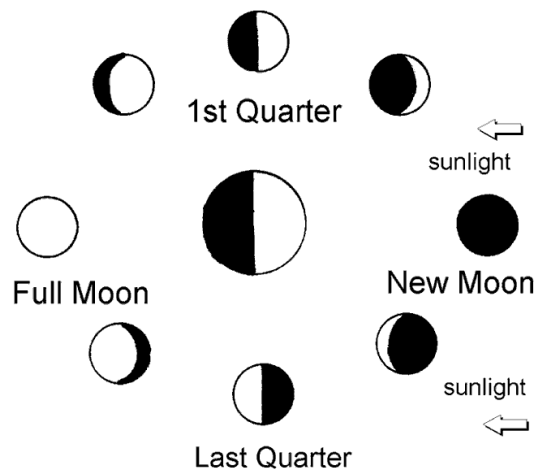
The Moon is the only satellite of the Earth. A satellite is an object that revolves around a planet. The moon rotates on its axis once every about 28 days and it also moves around the earth once every about 28 days.

The Moon in Rotation

The Moon does not produce its own light, instead it reflects the sun's light. Half of the moon is always lighted by the sun. But as the moon orbits around the Earth, the area of the lighted side facing the earth changes, these changes cause the phases of the moon. We can only see the lighted side of the moon.

Full Moon and New Moon

When we can see full of the side lighted, this is a full moon. When we can't see any of the lighted side, this is called a new moon.



Pic: The phases of the moon

Related Question from this Lecture

Q1: What is the moon? Write something about the motion of the moon.

Ans:

The moon is the only satellite of the earth. The moon rotates on its axis once every about 28 days and it also moves around the earth once every about 28 days.

Q2: What is called satellite?

Ans:

A satellite is an object that revolves around a planet. The moon is the only satellite of the earth.

Q3: How is the moon lighted by the sun?

Ans:

The moon is the only satellite of the earth. The moon does not produce its own light. It only reflects the sun's light. Half of the moon is always lighted by the sun. But as the moon orbits around the earth, the area of the lighted side facing towards the earth changes. These changes cause the phases of the moon. We can only see the lighted part of the moon.

Q4: What is full moon?

Ans:

When we can see full of the side lighted, this is a full moon. In this phase earth is located between the sun and the moon.

Q5: What is called new moon?

Ans:

When we can't see any of the lighted side, this is called a new moon. In this phases moon is located between the sun and the earth.

Q6: What is the universe?

Ans:

The universe is all of time and space and its contents. It includes planets, moons, stars, galaxies and all other forms of matter and energy.

Fill in the Blanks from This Chapter

1. A _____ makes far away objects seem larger.
2. Scientist uses telescopes to research on planets, stars, and _____
3. Light takes about _____ to travel from the moon to the earth.
4. Milky way is one of the _____ in the universe.
5. A galaxy has _____ crores of stars.
6. _____ is the study of the universe.
7. Galileo invented _____ that allowed him to see far.
8. Planets _____ around the sun.
9. Scientists are building a _____ to study the universe.
10. Earth spins on its axis like a _____ top.
11. The spinning motion of the earth on its axis is called _____

12. Earth's _____ goes through the north and south poles.
13. Earth's axis is _____ at some degree.
14. The earth's _____ causes day and night.
15. In the summer season the _____ hemisphere tilts toward the sun.
16. In winter the _____ hemisphere tilts away from the sun.
17. The moon is the only _____ of the earth.
18. A satellite is an object that _____ around a planet.
19. The moon does not produce its _____.
20. _____ of the moon is always lighted by the _____
21. We can only see the _____ side of the moon.
22. When there is summer in the northern hemisphere there is _____ in the southern hemisphere.
23. Day and night occur due to _____ of the earth.

Answer:

1. telescope 2. galaxy. 3. 1.3 second 4. galaxies. 5. ten thousand 6. Astronomy
 7. telescope. 8. revolved 9. space station 10. spinning 11 rotation. 12. axis
 13. tilted 14. rotation 15. Northern 16. Northern 17. Satellite 18. revolves
 19. own light. 20. Half; sun 21. lighted 22. winter 23. rotation

Matching from this chapter

Column-A	Column-B
1. Light takes 8 minutes	a) on planets, stars, and galaxy.
2. Telescope	b) is 3,84,400 km.
3. The part of the earth that is	c) to travel from the moon to the earth.
4. The moon	d) is about 15,00,00,000 km
5. Light takes 1.3 second	e) to travel from the moon to the earth.
6. The earth revolves	f) is the study of the universe.
7. The earth is spinning on	g) was invented by telescope.
8. The orbital motion of the earth around the sun	h) is called revolution.
9. Astronomy	i) is the imaginary line through the center of an object.
10. Distance from the sun to the earth	j) its axis once every 24 hours.
11. Distance from the moon to the earth	k) facing the sun is known as day.
12. An axis	l) around the sun.
13. Scientist uses telescope to research	m) is the only satellite of the earth

Answer:

1. Light takes 8 minutes to travel from the sun to the earth.
2. Telescope was invented by Galileo.
3. The part of the earth that is facing the sun is known as day.
4. The moon is the only satellite of the earth.
5. Light takes 1.3 second to travel from the moon to the earth.
6. The earth revolves around the sun.
7. The earth is spinning on its axis once every 24 hours.
8. The orbital motion of the earth around the sun is called revolution.
9. Astronomy is the study of the universe.
10. Distance from the sun to the earth is about 15,00,00,000 km
11. Distance from the moon to the earth is 3,84,400 km.
12. An axis is the imaginary line through the center of an object.
13. Scientist uses telescope to research on planets, stars, and galaxy.

Notice

Next CHT will be held on 21/06/2020 (Saturday)