

**M O D E R N   E A R T H   S C I E N C E****Chapter 30**  
**Moons and Rings**

**Read each statement below. If the statement is true, write *T* in the space provided. If the statement is false, write *F* in the space provided.**

- \_\_\_\_\_ 1. The force of gravity on the moon is greater than it is on earth.
- \_\_\_\_\_ 2. Seismographs have been placed on the moon by astronauts.
- \_\_\_\_\_ 3. During the fourth and final stage of lunar development, large numbers of meteorites punctured the moon's solid crust.
- \_\_\_\_\_ 4. The moon revolves around the earth in a circular orbit.
- \_\_\_\_\_ 5. An eclipse occurs when one planetary body passes through the shadow of another.
- \_\_\_\_\_ 6. A new moon occurs when the lighted surface of the moon faces toward the earth.
- \_\_\_\_\_ 7. A planetary body makes one rotation on its axis each day.
- \_\_\_\_\_ 8. The moons of Mars are heavily cratered.
- \_\_\_\_\_ 9. Jupiter's ring is made of particles of dark rock.
- \_\_\_\_\_ 10. A promising method for mining moon rocks uses the process of hydrolysis.

**Choose the one best response. Write the letter of that choice in the space provided.**

- \_\_\_\_\_ 11. The streaks that form when surface material has been splashed around lunar craters are called:
  - a. rilles.
  - b. maria.
  - c. regolith.
  - d. rays.
- \_\_\_\_\_ 12. Which of the following will occur if the moon crosses the plane of the earth's orbit when the moon is between the earth and the sun?
  - a. solar eclipse
  - b. full moon phase
  - c. lunar eclipse
  - d. last-quarter phase
- \_\_\_\_\_ 13. As the moon rotates, one side of the moon always faces the earth because:
  - a. the moon rotates and revolves at the same rate.
  - b. the earth's gravity attracts the near side.
  - c. the moon has more mass than the earth.
  - d. gravity on the moon is greater than on earth.

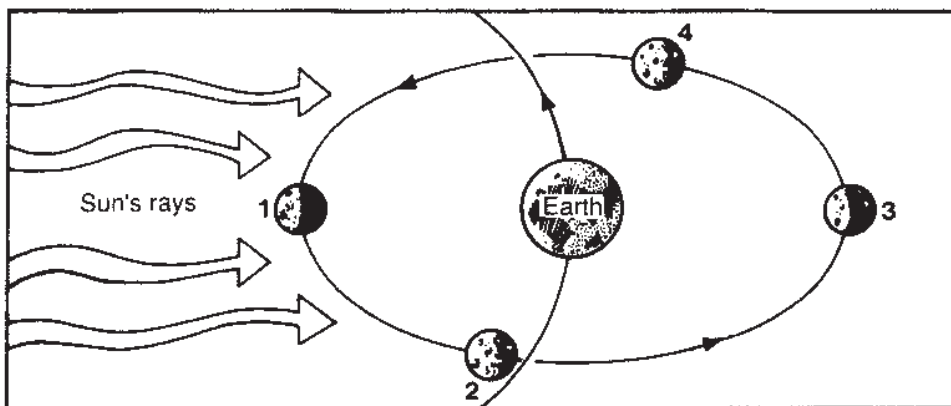
# MODERN EARTH SCIENCE

## Chapter 30

**Choose the one best response. Write the letter of that choice in the space provided.**

- \_\_\_\_\_ 14.** When the visible portion of the moon is increasing, the moon is:
- a. waxing.  
c. full.
- b. waning.  
d. waning-crescent.
- \_\_\_\_\_ 15.** What is the name of the calendar that was introduced in 46 B.C. to make 365.25 days the average length of a year?
- a. World                  b. Sol                  c. Gregorian              d. Julian
- \_\_\_\_\_ 16.** Phobos is a moon of:
- a. Venus.                  b. Mars.                  c. Jupiter.                  d. Saturn.
- \_\_\_\_\_ 17.** Which of the following is a moon of Jupiter?
- a. Io                          b. Titan                  c. Oberon                  d. Triton
- \_\_\_\_\_ 18.** A body that orbits a larger body is called a:
- a. penumbra.              b. satellite.              c. ray.                      d. regolith.

**Use the diagram below to answer questions 19 and 20.**



- \_\_\_\_\_ 19. A solar eclipse is most likely to occur when the moon is in position:  
a. 1.                      b. 2.                      c. 3.                      d. 4.
- \_\_\_\_\_ 20. Observers on earth see a full moon when the moon is in position:  
a. 1.                      b. 2.                      c. 3.                      d. 4.

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**Read each question and answer it in the space provided.**

21. What is the average distance of the moon from the earth? \_\_\_\_\_
22. When the moon is farthest from the earth, it is said to be at what position? \_\_\_\_\_
23. What is the layer beneath the moon's crust called? \_\_\_\_\_
24. What phase is the moon in when the side of the moon facing the earth is unlighted? \_\_\_\_\_
25. How long does it take for the moon to make one revolution around the earth? \_\_\_\_\_
26. What part of a planetary body's shadow is cone shaped and completely blocks the sunlight? \_\_\_\_\_
27. What is sunlight reflected off the earth called? \_\_\_\_\_
28. In what period of time does the moon go through a complete cycle of phases? \_\_\_\_\_
29. Which planet has two small, irregularly shaped moons? \_\_\_\_\_
30. Which planet has a moon called Triton, which is known to revolve in a backward, or retrograde, orbit around the planet? \_\_\_\_\_

**Read each question or statement and answer it in the space provided.**

31. Describe the giant-impact hypothesis of the moon's origin.  
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