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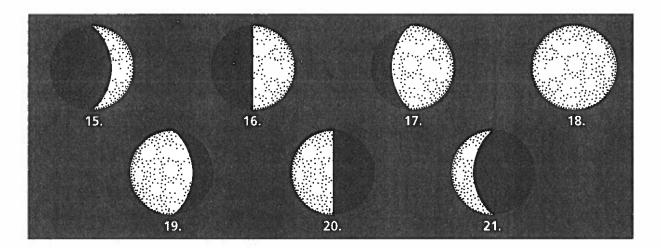
SECTION 28.3 The Sun-Earth-Moon System

in the space at	k, read about the motions of Earth, the Sun, and the Moon. the left, write true if the statement is true; if the statement is false, icized word or phrase to make it true.	
	 All societies base their calendars and timekeeping systems on the apparent motion of the Sun and Moon. 	
	2. The Sun, Moon, and stars appear to rise in the east and set in the west because of the rotation of the Moon.	
	3. You can demonstrate that Earth rotates through the use of a Foucault pendulum.	
	4. The period from one sunrise or sunset to the next is called the solar day.	
.5.	5. The length of time it takes for the Moon to go through a complete cycle of phases is called the <i>lunar month</i> .	
	6. Annual variations in the length of the day and in temperatures are dependent on the <i>longitude</i> where you live.	ů
.0.	7. The plane of Earth's orbit about the Sun is called the solstice.	
	8. The seasons are caused by Earth's orbit around the Sun in combination with the tilt of Earth's axis.	1
18 - 23	9. The hemisphere that is tilted toward the Sun experiences winter.	
	_ 10. A solar eclipse occurs when the Moon passes through Earth's shadow.	- 1
- P	11. On the summer solstice, the number of daylight hours for the northern hemisphere is at a maximum.	
	12. During the northern hemisphere's summer, the sun appears lower in the sky than it does in winter.	
	13. On the winter solstice, the number of daylight hours is at its minimum.	
·	14. The lengths of day and night are equal for both the northern and southern hemispheres on the vernal equinox.	

The Sun-Earth-Moon System, continued SECTION 28.3

In your textbook, read about the phases of the Moon.

Label each phase of the Moon below. Choose from the following phases: waning gibbous, waxing crescent, third quarter, first quarter, waxing gibbous, waning crescent, full moon.



_ -					
15.				 	

Answer the question.

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STUDY GUIDE FOR CONTENT MASTERY

SECTION 28.3 The Sun-Earth-Moon System, continued

Column A

In your textbook, read about the phases and motions of the Moon and about eclipses. For each item in Column A, write the letter of the matching item in Column B.

	Column A		Column B
23	3. The closest point to Earth in the Moon's orbit	a.	synchronous rotation
24	The inner portion of the shadow cast on Earth by the Moon		lunar month
25	Blocking of the Sun's light by the Moon passing between Earth and the Sun	c.	tides
26	Farthest point from Earth in the Moon's orbit	d.	solar eclipse
27	State at which the Moon's orbital and rotational periods are equal	e.	umbra
28	Occurs when the Moon passes through Earth's shadow	f.	penumbra
29	Length of time it takes for the Moon to go through	g.	perigee
	a complete cycle of phases	h.	apogee
30	The daily rise and fall of Earth's oceans caused by the gravitational pull of the Moon and the Sun	i.	lunar eclipse
31	Outer portion of the shadow cast on Earth by		

Circle the letter of the choice that best completes the statement.

- **32.** The fact that Earth observers always see the same side of the Moon is explained by the Moon's
 - a. eclipse.

c. gravity.

b. penumbra.

- d. synchronous rotation.
- 33. The tides on Earth are caused by the gravitational pull of the
 - a. the Moon only.

c. both the Moon and the Sun.

b. the Sun only.

- d. neither the Moon nor the Sun.
- 34. During an annular solar eclipse, the Moon

the Moon

- a. is near perigee.
- **b.** does not completely block the Sun.
- c. passes through Earth's shadow.
- d. always appears reddish in color.