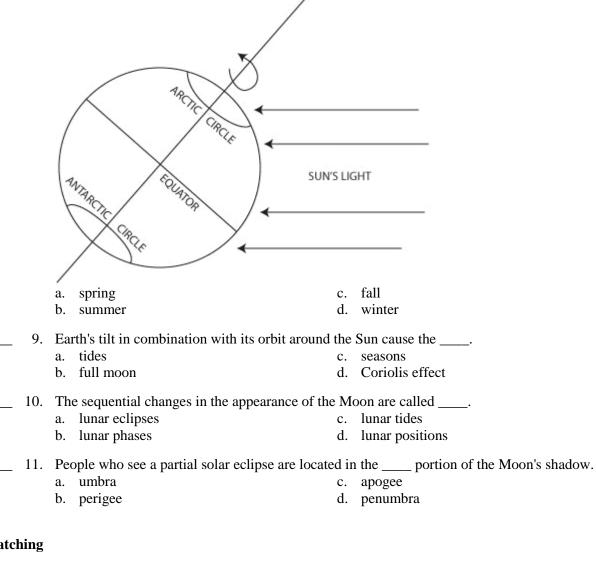
# **Ch-27 Practice Test**

# **Multiple Choice**

Identify	the	choice that best completes the statement or answers	s the question.
	1.	The phase of the Moon that immediately precedes t	he new Moon is the
		a. waxing crescent c.	waning crescent
		b. first quarter d.	third quarter
	2.	Dark-colored, relatively flat regions of the Moon's	surface that were formed when interior lava filled large
		basins are called	
		a. craters c.	maria
		b. volcanoes d.	sedimentary rocks
	3.	A occurs when the Moon moves directly betw	veen the Sun and Earth and throws a shadow on Earth.
		a. solar eclipse c.	waning gibbous
		b. lunar eclipse d.	waxing gibbous
	4.	The Sun's rays strike Earth at their northernmost an	d southernmost positions during
		a. winter and summer solstices c.	lunar eclipses
		b. spring and fall equinoxes d.	solar eclipses
	5.	The yearly orbit of Earth around the Sun is called in	ts
		a. rotation c.	revolution
		b. ellipse d.	tilt
	6.	The presence of maria on the Moon indicates that _	
		a. the Moon contains lava beneath its surface	
		b. many meteorites have hit the Moon recently	
		c. few meteorites have hit the Moon	
		d. the Moon has a dense atmosphere	
	7.	Summer occurs on the hemisphere of Earth that is	
		•	tilted away from the Sun
		b. tilted toward the Sun d.	turned toward the Sun
	8.	At the time indicated in this diagram, what season is	s it in the Southern hemisphere?



#### **Matching**

Match each term with the correct description below.

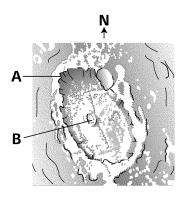
sphere equinox b. axis g. winter solstice c. rotation h. Moon phases d. revolution waxing e. ellipse new Moon

- 12. Earth's yearly orbit around the Sun
  - 13. changing appearances of the Moon from Earth
- 14. round, three-dimensional object and model of Earth
- 15. Moon phase in which none of the lighted surface of the Moon can be seen from Earth
- 16. when the Sun's rays strike Earth directly at the equator
- 17. turning of Earth on its axis

 18.	Moon phases in which the amount of lighted surface seen on Earth increases				
19.	December 21 or 22				
20.	imaginary line extending between the poles around which Earth spins				
21.					
 21.	shape of Earth's orbit around the Sun				
	Figure 23-1				
	Match each description with the correct term b	elov	v.		
	a. first quarter	f.	lunar eclipse		
	b. full moon	g.	maria		
	<ul><li>c. new moon</li><li>d. third quarter</li></ul>	h. i.	craters 27.3 days		
	e. solar eclipse	1.	27.5 days		
 22.	occurrence caused by Earth's coming between t	the S	Sun and the Moon and casting its shadow on the Moon		
 23.	Moon phase in which none of the lighted surface	ce of	f the Moon can be seen from Earth		
 24.	amount of time of the Moon's revolution and rotation				
 25.	depressions on the Moon caused by the impact	of n	neteorites		
 26.	waxing Moon phase in which one half of the M	Ioon	's lighted surface can be seen from Earth		
 27.	occurrence caused by the Moon's being between the Sun and Earth and casting its shadow on Earth				
 28.	dark-colored, relatively flat regions of the Moon formed from lava filling large basins				
 29.	phase in which all of the lighted side of the Mo	on c	ean be seen from Earth		
 30.	waning Moon phase in which one half of the lig	ghte	d side of the Moon can be seen from Earth		
	Match each item with the correct phrase below	·.			
	a. electromagnetic radiation	j.	Foucault pendulum		
	b. refracting telescope	k.	ecliptic		
	<ul><li>c. reflecting telescope</li><li>d. interferometry</li></ul>	l.	vernal equinox synchronous rotation		
	<ul><li>d. interferometry</li><li>e. spinoffs</li></ul>	m. n.	solar eclipse		
	f. maria	0.	umbra		
	g. ejecta	p.	penumbra		
	h. rilles	q.	lunar eclipse		
	i. regolith				
 31.	Plane of the Earth's orbit about the Sun				
 32.	Material blasted out of impact craters on the M	oon	that falls back to the surface		
 33.	Electric and magnetic disturbances, or waves, that travel through space				
 34.	The Moon's state, in which its rotational and orbital periods are equal				

	35.	Dark, smooth plains on the Moon's surface			
	36.	Hanging-weight system that helps demonstrate the rotation of Earth			
	37.	Valley-like structures on the Moon's surface			
	38.	Loose, ground-up rock on the Moon's surface			
	39.	Telescope that uses lenses to bring visible light to a focus			
	40.	Process of linking many separate telescopes together to act as one			
	41.	Occurs when the Moon passes directly between the Sun and Earth			
	42.	Outer portion of the Moon's shadow on Earth during a solar eclipse			
	43.	Inner portion of the Moon's shadow on Earth during a solar eclipse			
	44.	Telescope that uses mirrors to bring visible light to a focus			
	45.	Spring day characterized by day and night of equal lengths			
	46.	Occurs when the Moon passes through Earth's shadow			
	47.	NASA technologies that have been passed on to commercial industries for common usage			
Short	<b>A</b> a-				
Snort	Ansv	wer			
	48.	How would conditions on Earth be different if Earth were not tilted on its axis? Explain your answer.			
	49.	Compare the length of the Moon's rotational period and the length of the Moon's orbital period.			
Modif	fied T	True/False			
Indica	ite wh	nether the statement is true or false. If false, change the identified word or phrase to make the statement true.			
	50.	Albedo is the material blasted out of the Moon's surface as a result of space-object impacts.			
	51	The daily rising and setting of heavenly objects like the Sun is caused by the orbit of Earth.			
	51.	——————————————————————————————————————			
	52.	One reason different seasons occur on Earth is because Earth's <u>orbit</u> is tilted 23.5° relative to the ecliptic.			
	53.	When the Moon waxes during its lunar cycle, the amount of its sunlight portion that we see appears to <a href="increase">increase</a> in size			
	54.	A lunar eclipse can only occur during the phase of the new moon.			

# Problem



55. Of craters A and B in the illustration above, which is older? How do you know?

# **Ch-27 Practice Test Answer Section**

## **MULTIPLE CHOICE**

- 1. C
- 2. C
- 3. A
- 4. A
- 5. C
- 6. A
- 7. B
- 8. D
- 9. C
- 10. B
- 11. D

## **MATCHING**

- 12. D
- 13. H
- 14. A
- 15. I
- 16. F
- 17. C
- 18. J
- 19. G
- 20. B
- 21. E
- 22. F
- 23. C
- 24. I
- 25. H
- 26. A
- 27. E
- 28. G
- 29. B
- 30. D
- 31. K
- 32. G
- 33. A
- 34. M
- 35. F

- 36. J
- 37. H
- 38. I
- 39. B
- 40. D
- 41. N
- 42. P
- 43. O
- 44. C
- 45. L
- 46. Q
- 47. E

#### **SHORT ANSWER**

- 48. If Earth were not tilted on its axis, there would be no seasonal changes. The climate at any given location would be much the same year-round because neither hemisphere would lean more or less toward the Sun any time of the year.
- 49. The Moon's orbital period and the Moon's rotational period are equal.

#### MODIFIED TRUE/FALSE

- 50. F, Ejecta
- 51. F, rotation
- 52. F, axis
- 53. T
- 54. F, full moon

#### **PROBLEM**

55. Crater A is older than crater B. The impact of crater B is on top of crater A. Because of its larger size, if crater A was younger, it would cover up crater B.