Name:		
Hour:	Date:	

Chapter 22 Exam Study Guide

Multi	ple C	hoice
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	Identi	fv tl	he choice	e that be	est comple	tes the	statement of	or answers ti	he question.
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iuentij	y trie	CIIC	once that best completes the statement of ar	15 W	ers the question.
		Wr	rite the letter that best answers the question	or	completes the statement on the line provided.
	1.	The	e geocentric model of the solar system has t	he	planets
			and the moon orbiting the sun.		
		b.	orbiting the sun and the moon orbiting Ea	rth.	
		С.	and the moon and sun orbiting Earth.		
		d.	orbiting the sun and the sun orbiting Earth	۱.	
	2.	Wł	nat does the heliocentric model of the solar	syst	rem state?
		a.	Earth and the other planets orbit the sun.		
		b.	All of the planets and the sun orbit Earth.		
		c.	Only the moon and Earth orbit the sun.		
		d.	The planets orbit the Earth, which orbits the	ne s	un.
	3.	Wł	no was the first person to propose a helioce	ntri	c model of the universe?
		a.	Archimedes	c.	Ptolemy
		b.	Aristarchus	d.	Galileo
	4.		er the Middle Ages, the astronomer who chater was	ang	ed the model of the solar system by placing the sun at its
		a.	Galileo.	c.	Copernicus.
		b.	Ptolemy.	d.	Kepler.
	5.	Wł	nich astronomer discovered that the planets	ork	oit the sun in oval-shaped paths called ellipses?
		a.	Kepler	c.	Galileo
			Brahe	d.	Archimedes
	6.	Ga	lileo's most important contribution to astro	non	ny was his
		a.	discovery of evidence that the sun is the co	ente	er of the solar system
		b.	set of calculations of the size of each of the		
		С.	discovery of the planet Mars.	c p.	
		d.		ects.	
	7.	Isa	ac Newton was the first person to formulate	e an	d test the law of
		a.	universal gravitation.	c.	orbital velocity.
			acceleration.		universal mass.

 8.	The	e spinning of Earth on its axis is called		
	a. b.	revolution. precession.	c. d.	rotation. perihelion.
 9.	Wh	nat is Earth's motion in its path around the	sun (called?
		aphelion rotation	c. d.	precession revolution
 10.	Wł	nat is precession?		
	b. c.	the tilt of Earth's axis in relation to the ecl the rotation of Earth as it moves around the the faster orbital velocity of the planet at the slow change in the direction in which	he si peril	un helion
 11.	Wł	nat causes the moon's phases?		
	c.	the rotation of the moon on its axis Earth's tilt on its axis as it revolves around changes in how much of the sunlit side of the position of the moon each month in re	the	moon faces Earth.
 12.	The	e cycle of the moon through its phases, or t	he s	ynodic month, is
		21 days long. 27 1/3 days long.	c. d.	29 1/2 days long. 30 days long.
 13.	A s	olar eclipse occurs when		
		Earth casts a dark shadow on the moon. the moon casts a dark shadow on Earth.		Earth casts a dark shadow on the sun. the sun casts a dark shadow on the moon.
 14.	Du	ring a total lunar eclipse, the moon		
	a. b.	moves into Earth's umbra. moves into the sun's umbra.	c. d.	moves into Earth's penumbra. moves outside Earth's shadow.
 15.	Wł	nat causes the erosion of rocks on the moor	n's si	urface?
	a. b. c. d.	the eruption of lunar volcanoes impacts of particles from space weathering of wind-driven sand the effect of ultraviolet radiation from spa	ıce	
 16.	Wh	nat is the soil-like layer on the moon's surfa	ce ca	alled?
	a. b.	maria regolith	c. d.	basalt magma

17.	Long valleys or trenches associated with mari	ia are	2	
	a. rays.b. craters.		ejecta. rilles.	
18.	Which of the following is NOT present on the	mod	on?	
	a. light b. gravity	c. d.	•	
19.	The most widely accepted model for the orig	in of	the moon involves	
	 a. the formation of the moon from dust and b. a large body hitting Earth and ejecting de c. the capture of the moon from Mars by Ea d. a large body hitting Mars and splitting of 	bris arth.	that became the moon.	
20.	Which of the following lunar features is the o	ldest	?	
	a. surface regolithb. highlands	c. d.	craters with rays maria basins	
Completio Complete e	n ach statement.			
	Complete each statement on the line provided	d.		
21.	The geocentric model of the solar system was	s pro	posed by the astronomers of and	ient
22.	The planetary system of Ptolemy had the plan	nets	moving in circular orbits around _	·
23.	The motion of plan then stop and reverse direction.	iets i	s when they appear to move east	ward among the stars,
24.	The Danish astronomerthe solar system, especially Mars.		made precise measurements of	the locations of bodies in
25.	The average distance between Earth and the unit.	sun i	s about	_ million km, or one
26.	The mass of an object is a measure of the tot	al an	nount of	_ it contains.
27.	The Earth movement that causes night and d	ay is	called	
28.	Earth is closest to the sun on about January 3 about July 4 at			arthest from the sun on

	29.	Because of, the North Star will no longer be Polaris in several thousand years.
	30.	The moon is closest to Earth at and farthest away at
	31.	Bright splash marks that radiate outward from craters for hundreds of kilometers are
	32.	Most of the moon's surface is covered by, which are densely pitted, lightcolored areas.
Short	Ansv	ver
		In complete sentences, write the answers to the questions on the lines provided.
	33.	Summarize Kepler's three laws of planetary motion.
	2.4	
	34.	In your own words, list two principles stated in the law of universal gravitation.
	25	
	35.	Applying Concepts Why is it impossible for someone on Earth, even with a powerful telescope, to see the surface features that cover the whole surface of the moon?
	26	Ender the advanced and an extract the second
	36.	Explain why eclipses do not occur much more frequently.
	37.	Describe the positions of the sun, moon, and Earth during a solar eclipse. Explain what people on Earth see and why.
	0.5	
	38.	What does a total lunar eclipse look like from Earth? Explain why.
	39.	Comparing and Contrasting Compare and contrast the formation of craters and maria.

Essay

In at least 3-5 sentences, answer the following question about Earth's moon.

40. Describe the sequence of events that formed the moon.