Chapter 25 Review Sheet

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Section	1

Sec	ction 1
	What is the geocentric model?
2.	What is the heliocentric model?
3.	The apparent motions of the sun, moon, and stars result from Earth's daily
4.	and and keeps the planets in orbit around the sun.
5.	True or False: The orbit around the sun is a circle.
6.	The plane of Earth's orbit is called the
7.	What bodies make up the solar system?
8.	A is a relatively small natural body in space that revolves around a planet.
9.	and and are the only two planets without moons.
	. What do astronomers use to describe distances within the solar system? Define this term.
	. A is an unpiloted vehicle that carries scientific instruments into space and transmits
	ormation back to Earth.
fro	. The is a permanent laboratory designed for research in space for various astronauts om different countries.
	ction 2 . True or False: The moon has a thick atmosphere.
15.	. True or False: The moon's surface temperature varies tremendously.
16.	. The moon has three major surface features.
	a are low, flat plains formed by ancient lunar lava flows.
	b are rough, mountainous region surrounding maria.
	c are round depressions in the surface caused by the impact of high-speed meteoroids.
17.	. Why do most old craters still exist on the moon?
18.	. Scientists hypothesized that the moon formed after an enormous early in Earth's
his	story.

19. The moon's phases are caused by changes in the rela	ative of t	he moon, sun, and				
Earth.						
20. The moon cannot produce its own light, so where do	oes the light come from?					
21 are the different shapes of the moon visible from Earth.						
a moon – occurs when the moon is between the sun and Earth						
b moon – occurs when Earth is betv	veen the sun and moon.					
c. The shape of the moon is described as a	if less than half of the moon is lit.					
d. The shape of the moon is described as	is more than half of	f the moon is lit.				
e. The term means gro	wing; while the term	means shrinking.				
22. A occurs when the shadow of	one body in space, such as a planet or mo	oon, falls on another.				
23. True or False: Eclipses occur EVERY month during the	e new or full moon.					
24. A eclipse occurs when the moon	casts a shadow on the portion of Earth's	surface and occurs				
during the moon.						
25. A eclipse occurs when Earth ca	sts a shadow on the moon during the	moon.				
26 are the regular rise and f	all of ocean water.					
27. What is the main cause of the tides?						
28. A spring tide is where the change between daily high	and low tides is the	·				
a. Occurs during a or	moon.					
b. The moon, sun, and Earth are in a	·					
29. A neap tide is where the change between daily high and low tides is the						
a. Occurs during the	or	moon.				
b. The moon, sun, and Earth form a	·					
Section 3 30. List the four inner solar system planets.						
31. Inner solar system planets are calledEarth.		similar in structure to				
32. What characteristics do the inner solar system planets share?						
33. Answer the following about Mercury:	arrestrial planets					

- a. True or False: Mercury is the smallest of the terrestrial planets.
- b. True or False: There is no mantle convection and little erosion on Mercury.
- c. True or False: Mercury's surface temperature results in being extremely hot.
- d. True or False: Mercury has a thick atmosphere.
- 34. Answer the following about Venus:

- a. True or False: Venus has a thick atmosphere.
- b. True or False: Venus's atmosphere is composed of nitrogen which traps heat.
- c. True or False: Volcanos are found on Venus's surface.
- d. True or False: Venus rotates in the direction opposite to which it revolves.
- 35. Answer the following about Earth:
 - a. True or False: Earth's surface has a suitable atmosphere and temperature range for water to exist as a liquid
 - b. True or False: Earth has a thin atmosphere composed of carbon dioxide gas.
 - c. True or False: Earth has tectonic plates and erosion that continually changes its surface.
- 36. Answer the following about Mars:
 - a. True or False: Mercury rich rocks gives Mars a reddish color.
 - b. True or False: Mars has a thin atmosphere composed of carbon dioxide.
 - c. True or False: The surface temperature on Mars is relatively cold compared to other terrestrial planets.
 - d. True or False: It is believed that Mars once had liquid water on its surface.

37	are small, rocky bodies that are found orbiting the sun in the asteroid belt located
betwee	n and
38. True	e or False: Asteroids are only found in the asteroid belt.
39. Ast	eroids are remnants of what?
Section 40. List	4 the four outer solar system planets.
41. Wh	at characteristics do the outer solar system planets/gas giants share?
42. Wh	at two main gases make up gas giants?
43. A _	is a disk made of many small particles of rock and ice in orbit around a planet.
44. Ans	wer the following about Jupiter:
	a. True or False: Jupiter is the largest and most massive planet.
	b. True or False: The Great Dark Spot is a huge storm that can be found on Jupiter.
	c. True or False: Jupiter's moon lo is covered in ice.
	d. True or False: Jupiter's moon Europa contains liquid water beneath the ice that can be a likely place to

45. Answer the following about Saturn:

support life.

- a. True or False: Saturn has the biggest and most visible rings.
- b. True or False: Saturn contains a small atmosphere composed of methane.
- c. True or False: Saturn's most famous moon is Callisto.
- 46. What is the most unusual characteristic of Uranus?

47. The gas	, gives both Uranus a	and Neptune its blue/green coloring	g.	
48. Neptune's mo	ost famous moon is known as	which has an icy sur	face.	
49. How is a dwa	rf planet similar to a planet? How is it differ	ent?		
50	, which used to be the 9 th planet,	was later reclassified as a dwarf pla	anet.	
51.True or False:	Charon, Nix, and Hydra are all moons of Plu	to.		
52	are dust pieces of ice and rock that partially vaporize when they pass near the sun.			
53	are the oldest remnants of	the early solar system.		
54. Radioactive d	ating on meteoroids estimated that the sol	ar system is about	years old.	
55. The	is a doughnut shaped reg	ion located past Neptune about 10	00 AU and contains Pluto.	
56. The	is a very sparse sphere	of comets that encircle to solar sys	stem about 50,000 AU.	
Section 5				
57. What is the no	ebular theory?			
58. A	is a large, thin cloud of du	st and gas that eventually formed c	out solar system.	
59. True or False:	The solar nebula formed from the material	expelled by previous stars.		
	ving events in the correct order:) Solar nebula spins faster			
b) Solar nebula flattens out and form protop	lanetary disk		
c) Density and temperature in protoplanetar	y disk increases		
1	d) Shock wave from explosion of nearby sta	r causes solar nebula to collapse.		
e) Temperature increases enough for nuclea	r reactions to begin and sun is born	1	
f)	Solar nebular spins fast enough for gravita	tional attraction to pull enough par	ticles towards it	
61. True or False:	Nearly all of the mass of the solar nebula b	ecomes concentrated near the cen	ter.	
62. The center of	a solar nebula eventually becomes the	·		
63	were asteroid like bodies that	t eventually combine to form	, which	
form the current	planets.			
64	is a process of adding mass to grow	ing planetesimals.		
•	nets are relatively small and rocky because d/could not) condense while rocky material	•	ot/cold) so ice forming	
66. Gas giants are (could/could not)	e large with low densities because outer sola condense.	ar system was too (hot/cold) so ice	forming compounds	