## Vasquez High School -- Earth Science -- Exam #8 -- Chapter 28 -- 60 points

Write TRUE if the statement is true OR write the word that substitutes for the underlined word that would me it true. Writing false only earns partial credit. Three points each.	ıake
1) The farthest thing one can see with the naked human eye is the Milky Way galaxy.	
2) Galaxies are classified into three groups because of their <u>sizes</u> .	
3) Another name for heat energy is <u>infrared</u> energy.	
4) The frequency of sound is <u>higher</u> than normal if the ambulance is coming toward us.	
5) The unit of distance even greater than the light-year is the <u>magnitude</u> .	
6) It is generally believed that stars are born within great clouds called <u>nebulas</u> .	
7) The hottest stars we know of are colored white.	
8) A star is born when it begins the process of the Doppler Effect.	
9) Betelgeuse is 427 light-years from Earth. That means it takes light 427 years to get he	ere.
10) The closest star to Earth is called the Sun.	
Short Answer/Fill-in Section. Be clear and complete here. Three points apiece.	
11) There are three solid evidences we have for an expanding universe. They are:	
a)	
b)	
c)	
12) In about how much time will our sun begin its next phase? What will to	hat
next phase be? What will its last phase be?	
13) The Milky Way galaxy is said to have about stars. It is about how many	у
light-years across? What's at its center?	
14) Explain the difference between apparent magnitude and absolute magnitude:	

15)	The three types of galaxies are:	
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16)	For fifteen points, draw the electromagnetic spectrum. Include all ten energies and all six labels.	
17)	For ten points, draw the Hertsprung-Russell (H-R) diagram. Include labels and numbers on axes, where to Sun should be found, and areas for blue supergiants, red supergiants, red giants, white dwarfs and the Main Sequence.	he
Mu	<u>Itiple Choice Section</u> . Write the letter that best answers each example. Three points each.	
	18) Luminosity is another word for	
	a) brightness b) temperature c) density d) distance	
	19) A star of which mass below is most likely to become a supernova?	
	a) 1/5 solar mass b) 1 solar mass d) 25 solar masses d) 25 solar masses	

20	) A neutron star is com	posed mainly of	what material?		
	a) gas and dust	b) hydrogen	c) gravity	d) neutrons	
21	) Which constellation,	made of seven st	ars, points your way to	the North Star?	
	a) The Pleiades	b) The Big Dip	oper c) Orion	d) Sirius	
22	) The constellation Ca	ssiopeia is easy to	identify in the sky be	cause it looks like	
	<ul><li>a) a rectangular box</li><li>b) a loose letter W.</li></ul>		c) a large X in the sky d) a straight line of sta		
23	) Which of these is NO	OT an example of	microwave energy?		
	a) radar	b) sonar	c) ovens	d) x-rays	
24	) The astronomical uni	it is about			
26) <u>Short Es</u>	<ul> <li>a) the distance from the Moon to the Earth.</li> <li>b) about 93,000 miles</li> <li>c) the distance from the Sun to the Earth.</li> <li>d) about six trillion miles.</li> </ul> 5) We call a black hole that name because <ul> <li>a) it is a literally a hole in the universe.</li> <li>b) it is so dense that even light cannot escape.</li> <li>c) it has no gravity whatsoever.</li> <li>d) it has no energy whatsoever.</li> </ul> Essay. For six points describe the two possible life cycles for stars. Include what makes them erent and the different stages each one undergoes from their births to their end.				
27) Extra Cı	redit: What was the na	me of the 13th zo	odiacal constellation?		