## PHYS 1061. Stars and Galaxies

(b) night sky (c) daytime sky

(d) astronomical twilight

Quiz 1 Review Questions.		
1.	T or F. All of the constellation names originated with the ancient Greeks (roughly 600-0 BC).	
2.	T or F. Other than the Milky Way, no galaxies are visible to the naked eye from Earth.	
3.	T or F. The video "Powers of 10" has nothing to do with cosmology.	
4.	T or F. The nearest star to the Sun is about 10 times farther away than Pluto.	
5.	(2pt) Answer at least two of the following from the "Powers of 10" video.	
	<ul> <li>(a) the largest scale shown, in meters</li></ul>	
6.	Which representation of the sky will have the greatest distortions?	
	<ul> <li>(a) a star map poster showing the entire sky</li> <li>(b) a star atlas page showing a 15 X 15 ° region</li> <li>(c) a celestial sphere globe</li> <li>(d) a planetarium</li> </ul>	
7.	Which planet is the brightest as seen from Earth? (Don't include Earth, and just consider maximum brightnesses. )	
8.	A is a model of the sky that can show rising and setting motions but it fails to represent the distances to stars.	
	(a) cardinal pointer	
	(b) night sky	
	(c) celestial equator	
	(d) astronomical twilight (e) celestial sphere	
9.	Ancient skywatchers concluded that the stars were attached to a, a canopy of stars resembling an astronomical painting.	
	(a) celestial sphere	

10. What is the name of the planetarium program that Pinkney keeps telling you to get?

11. (2pts) Put these objects in order from smallest to largest:
(a) a cluster of galaxies
(b) the Milky Way
(c) human being
(d) Earth
(e) a supercluster of galaxies
(f) a neutron star
12. (2pts) Put these things in order from smallest to largest:
(a) the distance between stars
(b) a supercluster of galaxies
(c) radius of Neptune's orbit
(d) human being
(e) distance to Sun
(f) Cosmic Microwave Background
13. (1pt) Name one of the asterisms in the constellation Taurus.
14. (1pt) Name one of the asterisms in the constellation Ursa Major.
15. What unit is the most practical for measuring distances between galaxies?
(a) the astronomical unit (AU)
(b) the parcsec (pc)
(c) the light year (LY)
(d) the kilometer (km)
(e) the megaparsec (Mpc)
16. What unit is the most practical for measuring distances between planets in the solar system?
(a) AU (b) pc (b) LY (b) km (b) Mpc
17. What unit is the most practical for measuring distances to nearby stars?
(a) the light year
(b) the Astronomical Unit
(c) the micrometer
(d) the kilometer
(e) the meter

18.	Which of these was <b>not</b> the title of a subsection in Chapter 1?
	(a) Earth's Orbital Motion
	(b) Planet formation
	(c) Our place in Space
	(d) Scientific Theory and the Scientific Method
	(e) The Obvious View
19.	What is the brightest star in the nighttime sky?
20.	What is the brightest star in the sky?
21.	What process can be simplified into these three steps: Observation, Theory, and Prediction? The
22.	(1pt) What are two qualities of a good theory?
23.	The height of an adult human is about $10^x$ meters, where $x = \underline{\hspace{1cm}}$
	(a) $-2$ (b) 0 (c) 1 (d) 2 (e) 5
24.	Write this number in scientific notation: $2,540,000 = $
25.	Write this number in scientific notation: $93 \times 10^6 = $
26.	The distance $10^6$ parsec could be expressed in new units as one (Use prefix to get the most convenient unit.)
27.	Which of these "lengths to memorize" is the most in error?
	(a) Human, $10^0$ m
	(b) Earth diameter, $10^7$ m
	(c) The light year, $10^{16}$ m
	(d) Distance to Neptune, $10^{13}$ m
	(e) Cosmic Microwave Background, 10 <sup>30</sup> m