Basic Astronomy
QUIZ: Chapter 21

Name: _____

MULTIPLE-CHOICE: Circle the best answer to the questions below:

1. As protostars "turn on" they appear on the:
   a. main sequence
   b. red giants
   c. white dwarfs
   d. neutron stars

2. As stars use up their hydrogen the next thing they turn into:
   a. main sequence
   b. red giants
   c. white dwarfs
   d. neutron stars

3. Smaller mass stars usually end their life as:
   a. main sequence
   b. red giants
   c. white dwarfs
   d. neutron stars

4. Larger mass stars tend to.
   a. lose mass slowly as planetary nebulae
   b. blow up as a supernova
   c. just disappear
   d. turn into main sequence stars

5. A variable star shows variation in
   a. color
   b. magnitude
   c. mass
   d. shape

6. The core left over after a supernova can be a
   a. neutron star
   b. pulsar
   c. black hole
   d. all of the above

7. Inside every planetary nebula can be found a
   a. main sequence star
   b. red giant
   c. white dwarf
   d. planet

8. Describe the general shape of each of the following galaxies:

   a. elliptical

   b. irregular

9. List the stars in order from brightest to dimmest (the absolute magnitude is in parenthesis next to the name of the star)

Castor	+0.5
Regulus	-0.3
Betelgeuse	-7.2
Sirius	+1.4

10. Give one explanation for why variable stars can vary:

11. Match the star type with the color:

A stars _____	a. blue
M stars_____	b. yellow
G stars _____	c. white
B stars _____	d. red

12. List the above stars from coolest to hottest:

12. Draw a top down picture of a spiral galaxy and label the following:
1.BULGE, 2.SPIRAL ARMS, 3.DISK, 4.HYDROGEN GAS CLOUDS, 5.BRIGHT BLUE STARS