Test Review
H-R diagram/ Classification of Stars/ Galaxy Classification

1) Know the H-R diagram. You will be given a H-R diagram on the test. You should be able to chart the star on the H-R diagram and determine various characteristics of the star by its placement.
    a. Know where Red giants, red supergiant, red dwarf, blue giant, middle main sequence, blue supergiant and white dwarf stars are located on the H-R diagram.
    b. Be able to determine if the star is stable or not.
    c. Know the approximate lifespan of the star if it is on the main sequence.
    d. Be able to compare stars in terms of luminosity and temperature.
    e. Be able to find stars that have similar characteristics.
    f. Be able to locate which stars on the main sequence have the most mass. Longest lifespan.
2) The majority of stars in our universe are what type of stars? Why?
3) Which type of stars on the main sequence will go supernova when they die?
4) What is apparent brightness? Explain the scale used to measure a star's apparent brightness?
5) What is absolute brightness? How is it measured?
6) How is temperature related to the color a star appears? Which stars on the H-R diagram are the hottest? Coolest?
7) What two quantities are needed to place a star on the H-R diagram?
8) What is occurring in the core of a main sequence star?
9) What is happening to stars that are not on the main sequence?
10) When a star is forming what quantity determines where a star will end up on the main sequence?
11) What is a globular cluster? Open cluster?
12) If one star has a larger apparent magnitude than another star does it have a greater absolute luminosity? Explain.
13) If given two star clusters on H-R diagrams know which star cluster is older.
14) What are the four main types of galaxies?
    a. Which type of galaxy is the Milky Way?
    b. Which galaxy (ies) have young stars?
    c. Which galaxy (ies) have only older stars?
    d. Which galaxy (ies) show evidence of galaxy collisions?
15) Know the classifications of galaxies. If given a picture of a galaxy be able to classify it.
16) What is a variable star?