1) What is the energy source for a main sequence star?
__________________________________________

2) What happens to a star to cause it to evolve off the main sequence?
__________________________________________

3) Where inside a star does hydrogen fusion take place when it is in the sub-
giant phase? ______________________________________________

4) Where in the H-R diagram do you find stars using helium fusion as their power source? ______________________________

5) What temperature is required for a star to fuse helium into carbon?
__________________________________________

6) The cloud of hot, expanding gas that surrounds a dying low mass star is called a ______________________________

7) The core of a low mass star that is left behind after the star dies is called a ______________________________

8) What is the name for the series of reactions that lead to hydrogen fusion into helium inside very massive stars? ______________________________

9) What is the minimum mass needed for a star to switch to helium as a fuel supply, but avoid having a helium flash? ______________________________

10) When a 15 solar mass star runs out of hydrogen fuel in its core, in which direction does it move on the H-R diagram?
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