

Closed book, closed notes. Clearly circle ("O") the one choice that you think is most definitely correct. Cross out ("X") only one choice that you think is definitely incorrect.

This quiz continues from questions (1)-(7) on the other side of this page.

8. [4.0 points.] The sun will never become a neutron star because it:
- (A) has no companion star.
 - (B) does not have enough mass.
 - (C) has a main sequence lifetime that is too long.
 - (D) will have nothing left after its type II supernova explosion.
9. [4.0 points.] A _____ main sequence star will eventually become a planetary nebula.
- (A) massive.
 - (B) medium-mass.
 - (C) low-mass.
 - (D) (Two of the above choices.)
 - (E) (All of the above choices.)
 - (F) (None of the above choices.)
10. [4.0 points.] A compact object with _____ may be evidence of a white dwarf in a binary system.
- (A) repeated nova bursts.
 - (B) regularly timed x-ray pulses.
 - (C) zero mass and no emitted light.
 - (D) a hot, x-ray emitting accretion disk.

