Team Number: _____ Team Name: _____

Score:

Answer Sheet:

1a) _____ Cephied _____ (Type)

_____ Semi – Regular _____ (Type)

Type II Supernova or Cataclysmic (Type)

1b) _____P_____ (A – X)

_____R_____ (A – X)

1c) _____9_____ (1 – 10)

_____1_____ (1 – 10)

2a) _____Q_____ (A – X)

2b) _____ Flare Star_____ (Type)

2c) _____3_____ (1 – 10)

3a) _____SU Ursae Majoris_____ (Object)

3b) __Solar-Type (Main Sequence)____ (Type)

_____ White Dwarf_____ (Type)

_____Accretion Disk_____ (Type)

3c) _____D_____ (A – X)

_____S_____ (A – X)

3d) _____E_____ (A – X)

4a) _____H_____ (A – X)

4b) _____7_____ (1 – 10)

4c) _____RR Lyrae_____ (Type)

4d) _____8_____ (1 – 10)

5a) _____ RY Sagittarii_____ (Object)

5b) _____U_____ (A – X)

5c) _____R Coronae Borealis_____ (Type)

5d) _____F_____ (A – X)

6a) _____P_____ (A – X)

6b) __A hump on the ascending curve___

_____

_____

6c) _The color would change because the_

temperature is changing. At maxima

_temperature is highest and the color _

_would be bluer during these times__

_____

7a) _____W_____ (A – X)

7b) __The observed spectra is shifted___

__towards shorter wavelengths_____

_(Doppler Effect); so the wind is ___

__blowing towards Earth_____

_____

8a) _____ 85 - 100_____ (days)

8b) ___400 – 450_____ (days)

8c) _____Pulsating_____ (Type)

8d) _____L_____ (A – X)

Team Number: _____ Team Name: _____

Score:

8e) _____A_____ (A – X)

8f) _____V725_____ (Object)

8g) __The more massive main sequence_ _star has accreted mass from the ___ __originally more massive red giant_ _companion_____

9a) _____V_____ (A – X)

9b) __Nucleus of a Galaxy__ (Type)

9c) __No – Core, Star was Destroyed___ (Type)

10a) ____T_____ (A – X)

10b) _____Speeding Up_____

10c) ___128 – 136 x 10^6____ (Years)

10d) _____4_____ (1 – 10)

11) _Period decreased and is now _____ _increasing with a constant rate____ _of change_____

13) _____9.0_____ (Solar Masses)

14) _____1.0_____ (A.U.)

15) _____200 – 236____ (km/s)

16) _____50 - 70_____ (Degrees)

17) _____A_____ (A – C)

18) _____E_____ (A – G)

19) _____4_____ (times more)

20) _____5.3 - 5.4____ (days)

21) _____4.75 - 4.95___ (days)

22) ____240 - 290___ (parsecs)

23) ____66 - 69_____ (parsecs)

24) _____C_____ (A – C)

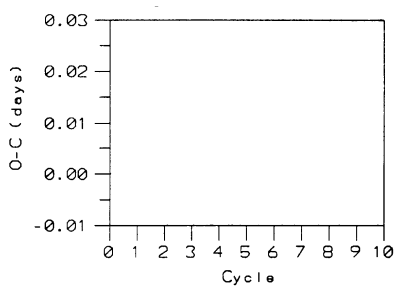
25) _____28 - 32_____ (parsecs)

26) _1.3 – 1.5 or SQRT(2)_ (times smaller)

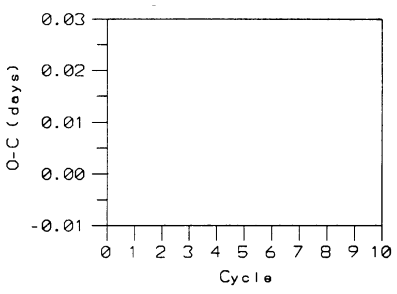
27) _____0.2 – 0.3_____ (mW)

28) ____Neutron Star_____ (Type)

12a)



12b)



12c)