

1. D 31. Eclipsing variable star *OR* eclipsing binary (2 points)
2. C 32. 32.5 days (2 points)
3. D 33. 4 (2 points)
4. B 34. 65 Tau (2 points)
5. C 35. 58 Ori (2 points)
6. A 36. HR 2491 (2 points)
7. B 37. HR 4621 (2 points)
8. B 38. 58 Ori (2 points)
9. D 39. 4.23×10^{11} m (2 points)
10. D 40. 6.74×10^{10} m (2 points)
11. D 41. 12 solar masses *OR* $12M_{\odot}$ (2 points)
12. C 42. Red giant has a luminosity approx. 120x greater than that of the A star. (2 points)
13. C 43. $3300 \pm 100 \text{ \AA}$ (2 points)
14. D 44. 30.7 parsecs (2 points)
15. D 45. 10^4 ly (2 points)
16. E 46. Cepheid variable
17. D 47. RR Lyrae variable
18. C 48. Mira variable
19. A 49. Mira *OR* o Ceti *OR* o Cet *OR* Omicron Ceti
20. E 50. Planetary nebula *OR* white dwarf
21. E 51. Abell 30 *OR* A30
22. E 52. Cancer
23. C 53. T Pyxidis *OR* T Pyx
24. C 54. Recurrent nova *OR* cataclysmic variable
25. D 55. T Tauri
26. B 56. Hind's Variable Nebula *OR* NGC 1555
27. D 57. Eta Carinae *OR* η Car
28. B 58. $-59^{\circ}41'(04.26'')$ – the seconds are not needed for points
29. C 59. VELA SNR (Supernova Remnant)
30. E 60. Pulsar

Total Points = 90 (1-30, 46-60 are worth 1 pt each, 31-45 are worth 2 points each)

Tie Breaker #1: Total Points on Part III; Tie Breaker #2: Total Points on Part II; Tie Breaker #3: Total Points 42-45