

ANSWER KEY

A

1. 3
2. Eta Carina
3. red giant
4. 1
5. Pleiades
6. open cluster
7. B
8. S
9. 7
10. white dwarf
11. M
12. Milky Way Galaxy
13. black hole
14. Sirius A and Sirius B
15. x-ray
16. 7
17. R
18. Cats Eye Nebula
19. 6
20. red giant
21. brown dwarfs
22. Gliese 229B
23. 8
24. red giant (or mira variable)
25. A
26. Betelgeuse
27. Cas A
28. supernova remnant
29. x-ray
30. J
31. pulsar
32. P
33. A
34. H and T
35. nova
36. optical binary
37. K
38. Q
39. H and T
40. N

B

- 1. rho Orphiuchi molecular clouds**
- 2. Antares**
- 3. red supergiant (or red giant)**
- 4. M4**
- 5. globular cluster**
- 6. C and N**
- 7. white dwarfs**
- 8. 65,000 trillion cubic light years**
- 9. 130,000 trillion Earths**
- 10. 390 billion Suns**
- 11. Circinus Galaxy**
- 12. 24**
- 13. 47 Tucanae**
- 14. globular cluster**
- 15. K**
- 16. G**
- 17. very old**
- 18. white dwarf branch**
- 19. H**
- 20. NGC2244**
- 21. open cluster**
- 22. D**
- 23. 10.4 years**
- 24. Orion nebula**
- 25. protostars (or T-Tauri stars)**
- 26. I**
- 27. Type II**
- 28. Type I**
- 29. 10^{12} times greater**
- 30. Cats Eye nebula**
- 31. NGC 6543**
- 32. x-ray**
- 33. open cluster**
- 34. middle-aged**
- 35. red supergiant**

C.

G – nebula

B – stellar nursery

I – proto-planetary system

A – thermonuclear fusion

F – sun-sized star

J – red giant stage

D – planetary nebula

K – white dwarf

C – white dwarf in binary system accretes material from red giant

E – Type Ia supernova explosion

L – fades over time

H – leaves nothing behind – white dwarf is totally destroyed