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Stellar Evolution Quiz

1. These are associated with the birth of stars (tick more than one)

a) Emission nebulae

b) Absorption Nebulae

c) Planetary Nebulae

d) Open Clusters

e) Supernovae remnants

2. These are associated with the death of stars (tick more than one)

a) Emission nebulae

b) Absorption Nebulae

c) Planetary Nebulae

d) Open Clusters

e) Supernovae Remnants

3. Nebula can be both bright and dark areas of space. What do nebula consist of?

a) Charged Particles

b) Rock and ice

c) Gas and Dust

4. What will happen to a star of less than 4 solar masses?

a) It will become a neutron star

b) It will become a white dwarf

c) It will become a black hole

5. What will happen to a star of between 4 to 25 solar masses?

a) It will become a neutron star

b) It will become a white dwarf

c) It will become a black hole

6. What will happen to a star of over 25 solar masses?

a) It will become a neutron star

b) It will become a white dwarf

c) It will become a black hole

7. Which of these are NOT direct evidence of black holes?

a) Accretion disc

b) Redshift spectrum

c) Orbiting binary Companions

d) X-Rays

8. White dwarf stars are balanced by gravitational pressure and ..?

a) Radiation pressure

b) Electron pressure

c) Neutron pressure

9. Main Sequence stars are balanced by gravitational pressure and ..?

a) Radiation pressure

b) Electron pressure

c) Neutron pressure

10. Neutron stars are balanced by gravitational pressure and ..?

a) Radiation pressure

b) Electron pressure

c) Neutron pressure

11. What is the name of the limit given to the maximum size of a white dwarf?

a) Speed Limit

b) Chandrasekhar Limit

c) No Limit by 2 Unlimited

Answers

1. (a) (b) (d)
2. (c) (e)
3. (c)
4. (b)
5. (a)
6. (c)
7. (b)
8. (b)
9. (a)
10. (b) (c)
11. (b)