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Starlight Quiz

1. This is two stars that share a common gravitational relationship..?

a) Double Star

b) Optical Double

2. This is two stars that look close together from Earth but have no proximity or relationship to one another...

a) Double Star

b) Optical Double

3. What is the name of the method that astronomers use to calculate distances to nearby stars?

a) Parallax

b) Geometric analysis

c) Algorithms

4. A parsec is..?

a) The distance of the nearest star to Earth

b) The distance a star would be with a parallax of 1 second of arc

c) The distance Han Solo boasts he fly in the Millennium Falcon

5. How many light years is a parsec?

a) 3.26 light years

b) 15.87 light years

c) 100 light years

6. Which of these would be a likely apparent magnitude of a faint star?

a) 1

b) 3

c) 6

7. Which of these would be a likely apparent magnitude of a bright planet?

a) -2

b) 0

c) 2

8. A magnitude difference of 1 is equal to a difference in brightness of 2.5. A magnitude difference of 5 is equal to?

a) 7.5

b) 12.5

c) 100

9. Absolute magnitude is how far a star would be of you were how far away from it?

a) 10 light years

b) 10 parsecs

c) 10 mega parsecs

10. One method astronomers use to calculate how far other galaxies are from us is..?

a) Eclipsing Binaries

b) Novae

c) Cepheid Variables

11. Which of these lines in a stellar spectrum appear bright?

a) Emission Lines

b) Absorption Lines

c) Atom lines

12. What does a stellar spectrum NOT necessarily tell us about a star?

a) Number of planets orbiting it

b) Absorption Lines

c) Atom lines

13. The Hertzsprung-Russell diagram shows us..?

a) The relationship between binary systems

b) The relationship between a stars composition and colour

c) The relationship between a stars temperature and luminosity

14. Which of these variable stars has the most predictable and reliable light curve?

a) Eclipsing binaries

b) Cepheid variables

c) Novae/Supernovae

Answers

1. (a)

2. (b)

3. (a)

4. (b)

5. (a)

6. (c)

7. (a)

8. (c)

9. (b)

10. (c)

11. (a)

12. (a)

13. (c)

14. (b)