

12. The equivalent *star* element of three element of three equal resistors each to R and connected in *delta* is
 - a. R
 - b. $\frac{3}{2}R$
 - c. $\frac{R}{3}$
 - d. $3R$
13. If the line voltage V_{line} for a star connection is 440 V, then the phase voltage V_{ph} is
 - a. 440 V
 - b. $\frac{440}{\sqrt{3}}$ V
 - c. $\frac{440}{3}$ V
 - d. 240 V
14. A 440 V/110 V transformer has 1000 turns on the primary winding. The number of turns on the secondary is:
 - a. 4000
 - b. 550
 - c. 250
 - d. 25
15. A transformer is to supply a load of 32 A at 415 V. If the primary voltage is 3320 V, find the primary current
 - a. 32 A
 - b. 16 A
 - c. 8 A
 - d. 4 A
16. The voltage across a component in an electrical circuit is calculated as 50V using Ohm's law. When measured, the actual voltage is 50.4V. Calculate the percentage error in the calculation.
 - a. 99.2%
 - b. 0.8%
 - c. 0.79%
 - d. None of the above

Practice Aptitude Test Electrical

Fred N Grayson



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