



12	The rate at which the free electrons pass through any section of a metallic wire from right to left is:	<p>C. <b>The same speed at which they pass from left to right</b></p> <p>D. Any of above</p> <p>E. None of them</p>
13	The instantaneous velocity is define as the limiting value of $\Delta d/\Delta t$ on the time interval $\Delta t$ approaches to	<p>A. zero</p> <p>B. maximum</p> <p>C. minimum</p> <p>D. infinity</p>
14	The waves produced in a microwave oven have wavelength.	<p>A. 12 mm</p> <p>B. <b>12 cm</b></p> <p>C. 12 m</p> <p>D. 12 mm</p>
15	A wire of radius r has resistance R. If it is stretched to a wire of r/2 radius, then the resistance becomes	<p>A. 2R</p> <p>B. 4R</p> <p>C. <b>16R</b></p> <p>D. Zero</p>
16	A ball is dropped vertically down and it takes time t to reach the ground. At time t/2	<p>A. The ball had covered exactly half the distance</p> <p>B. The velocity of the ball was V/3 where V is the velocity when it reached the ground</p> <p>C. <b>The ball had covered less than half the distance</b></p> <p>D. The ball had covered more than half the distance</p>
17	When three identical bulbs of 60 watt, 200 volt rating are connected in series to a 200 volt supply, the power drawn by them will be	<p>A. <b>180 watt</b></p> <p>B. 10 watt</p> <p>C. 20 watt</p> <p>D. 60 watt</p>
18	In the formula $B = \mu_0 n i$ , the symbol n denotes:	<p>A. Total number of turns of solenoid</p> <p>B. <b>Number of turns per unit length</b></p> <p>C. Number of turns per unit volume</p> <p>D. Numbers of turns per unit area</p> <p>E. Number of moles</p>
19	The length of rotating vector (on a certain scale) represents the:	<p>A. Peak value of alternating quantity</p> <p>B. RMS value of alternating quantity</p> <p>C. Instantaneous value of alternating quantity</p> <p>D. Either (B) or (C)</p> <p>E. <b>Either (A) or (B)</b></p>

Electromagnetic waves emitted by hot bodies are called:

- A. Photoelectrons
  - B. Alpha rays
  - C. Thermal radiation
  - D. None of these
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