

ECAT Pre General Science Physics Chapter 13 Current Electricity

Sr	Questions	Answers Choice
1	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	<p>A. Increases</p> <p>B. Decreases</p> <p>C. Remains the constant</p> <p>D. Either of these</p> <p>E. None of these</p>
2	The rate at which the free electrons pass through any section of a metallic wire from right to left is:	<p>A. Greater than the speed at which they pass from left to right</p> <p>B. Less than the speed at which they pass from left to right</p> <p>C. The same speed at which they pass from left to right</p> <p>D. Any of above</p> <p>E. None of them</p>
3	The effects of bends in a wire on its electrical resistance are:	<p>A. Zero</p> <p>B. Much larger</p> <p>C. Larger</p> <p>D. Smaller</p> <p>E. None of these</p>

		family:" Times New Roman","serif",">None of these<o:p></o:p></p>
4	The quantity having the same unit as that of emf is:	A. Force B. Energy C. Potential D. Current E. Charge
5	In case of metallic conductors, the charge carriers are	A. Protons B. Electrons C. Antiprotons D. Positrons E. Both A and B
6	Gaussian surface is always:	A. <p class="MsoNormal">Rectangular<o:p></o:p></p> B. <p class="MsoNormal">Spherical<o:p></o:p></p> C. <p class="MsoNormal">Cylindrical<o:p></o:p></p> D. <p class="MsoNormal">Box shape<o:p></o:p></p> E. <p class="MsoNormal">Any of these<o:p></o:p></p></p></p></p></p></p>
7	Aluminum is a:	A. <p class="MsoNormal">Good insulator<o:p></o:p></p> B. <p class="MsoNormal">Bad conductor<o:p></o:p></p> C. <p class="MsoNormal">Both (A) and (B)<o:p></o:p></p> D. <p class="MsoNormal">Excellent conductor<o:p></o:p></p> E. <p class="MsoNormal">Semiconductor<o:p></o:p></p></p></p></p></p></p>
8	Flux through a closed surface of any shape and flux through the surface of a sphere drawn around a charge are:	A. <p class="MsoNormal">Different<o:p></o:p></p> B. <p class="MsoNormal">Same<o:p></o:p></p> C. <p class="MsoNormal">Such that it is greater in the first case<o:p></o:p></p> D. <p class="MsoNormal">Such that it is greater in the second case<o:p></o:p></p> E. <p class="MsoNormal">None of these<o:p></o:p></p></p></p></p></p></p>

9	Electrolysis is the study of conduction of electricity through:	<p>A. Solids B. Liquids C. Gases D. Plasma</p>
10	An eV is unit of:	<p>A. Potential</p> <p>B. Energy</p> <p>C. Work</p> <p>D. Power</p> <p>E. Both (B) and (C)</p>
11	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	<p>A. Both the conductors are at the same potential</p> <p>B. Potential difference across the conductors remain constant</p> <p>C. Potential difference across the conductors becomes zero</p> <p>D. Both (A) and (B)</p> <p>E. Both (A) and (C)</p>
12	An inkjet printer uses in its operation:	<p>A. Neutrons</p> <p>B. Mesons</p> <p>C. Positrons and photons</p> <p>D. An electric charge</p> <p>E. None of these</p>
13	Which instrument is expensive and difficult to use?	<p>A. Voltmeter B. Potentiometer C. CRO D. Both A and C E. Both A and B</p>

17	The value of relative permittivity of different dielectrics are:	<p>16px;">Different</p> C. <p class="MsoNormal">Greater than one</p> D. <p class="MsoNormal">Smaller than one</p> E. <p class="MsoNormal">Both (B) and (C)</p></p>
18	The conventional current is the name given to current due to flow of	<p>A. Positrons B. Positive charges C. Negative charges D. Both A and C E. None of these</p>
19	Electric flux is:	<p>A. Cross product of two vector<p class="MsoNormal"></p> B. <p class="MsoNormal">Dot product of two vectors</p> C. <p class="MsoNormal">A vector quantity</p> D. <p class="MsoNormal">A scalar quantity</p> E. <p class="MsoNormal">Both (B) and (D)</p></p>
20	The current that flows through the coil of a motor causes:	<p>A. <p class="MsoNormal" style="text-align: justify">Its shaft to revolve</p> B. <p class="MsoNormal" style="text-align: justify">Its brushes to rotate</p> C. <p class="MsoNormal" style="text-align: justify">Motor to move</p> D. <p class="MsoNormal" style="text-align: justify">Its shafts to rotate</p> E. <p class="MsoNormal" style="text-align: justify">None of these</p></p>