

Physics ECAT Pre Engineering Chapter 13 Current Electricity

Sr	Questions	Answers Choice
1	The earth's potential and potential at infinity are taken:	<p>A. Equal</p> <p>B. Zero</p> <p>C. First is greater than the second</p> <p>D. Second is greater than the first</p> <p>E. Both (A) and (B)</p>
2	The strength of magnetic field at certain points around a wire depends upon:	<p>A. Value of current passing</p> <p>B. Distance from the current element</p> <p>C. Color of the material</p> <p>D. Both (A) and (B)</p> <p>E. Both (B) and (C)</p>
3	The current of 1 ampere is passing through a conductor. The charge passing through it in half a minute is:	<p>A. One coulomb</p> <p>B. 0.5 coulomb</p> <p>C. 30 coulomb</p> <p>D. 2 coulombs</p> <p>E. 30 coulomb</p>

		<p>None of these</p></td> </p>
4	As the current flows through the wire	<p>A. It generates heat in the wire B. It produces sound in the wire C. Resistance of the wire decrease D. Voltage across the ends is the increase E. None of these</p>
5	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	<p>A. <p class="MsoNormal" style="text-align: justify">Both the conductors are at the same potential</p></td> </p>
6	An eV is unit of:	<p>A. <p class="MsoNormal">Potential</p></td> </p>
7	An ideal voltmeter has:	<p>A. Zero resistance B. Small resistance C. Large resistance D. Infinite resistance E. Both A and B</p>
8	Aluminum is a:	<p>A. <p class="MsoNormal">Good insulator</p></td> </p>

9	An important part of inkjet printer is:	<p>A. Toner</p> <p>B. Drum</p> <p>C. Deflection plates</p> <p>D. Heated rollers</p> <p>E. None of these</p>
10	If the ends of a wire are connected to a battery an electric field E will be set up at:	<p>A. The ends of the wire only</p> <p>B. Mid points of the wire only</p> <p>C. Every point within the wire</p> <p>D. At nodes only</p> <p>E. Both (B) and (D)</p>
11	Gaussian surface is always:	<p>A. Rectangular</p> <p>B. Spherical</p> <p>C. Cylindrical</p> <p>D. Box shape</p> <p>E. Any of these</p>
12	The conventional current is the name given to current due to flow of	<p>A. Positrons</p> <p>B. Positive charges</p> <p>C. Negative charges</p> <p>D. Both A and C</p> <p>E. None of these</p>

13	The value of relative permittivity of different dielectrics are:	<p>A. >1</p> <p>B. <1</p> <p>C. >1</p> <p>D. <1</p> <p>E. Both (B) and (C)</p>
14	The charge carriers in an electrolyte are	<p>A. Positive ions</p> <p>B. Negative ions</p> <p>C. Either A or B</p> <p>D. Both A and B</p> <p>E. Neither A nor B</p>
15	The emf is measured in:	<p>A. Newton</p> <p>B. Volt</p> <p>C. J/C</p> <p>D. Both A and B</p> <p>E. Both B and C</p>
16	A thermistor is a resistor which is:	<p>A. Light Sensitive</p> <p>B. Heat Sensitive</p> <p>C. Sound Sensitive</p> <p>D. All of these</p> <p>E. None of these</p>
17	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>
18	Electric field lines emerge from the charge in:	<p>A. One dimension</p> <p>B. Two dimensions</p> <p>C. Three dimensions</p> <p>D. Four dimensions</p> <p>E. None of them</p>
		<p>A. Decreasing from zero to maximum</p> <p>B. Increasing from zero to maximum</p> <p>C. ...</p>

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When two spherical conducting balls at different potentials are joined by metallic wire, the current starts:

Decreasing from maximum to zero

D. **Increasing from maximum to zero**

E. **Both (A) and (D)**

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As the current flow through the wire:

It generates heat in the wire

B. **It produces sound in the wire**

C. **Resistance of the wire decreases**

D. **Voltage across the ends is increased**

E. None of these