

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The mass of an object will be doubled at speed	<p>A. $1.6 \times 10^8 \text{ ms}^{-1}$</p> <p>B. $2.6 \times 10^8 \text{ ms}^{-1}$</p> <p>C. $2.6 \times 10^7 \text{ ms}^{-1}$</p> <p>D. $2.6 \times 10^9 \text{ ms}^{-1}$</p>
2	The wave motion set up in any medium depends upon:	<p>A. Elasticity</p> <p>B. Inertia</p> <p>C. Density</p> <p>D. All of these</p>
3	An induced current can be produced by:	<p>A. Constant magnetic field</p> <p>B. Changing magnetic field</p> <p>C. Varying magnetic field</p> <p>D. Constant electric field</p> <p>E. None of these</p>
4	When quarter of a circle is completed, phase of vibration is:	<p>A. 90°</p> <p>B. 180°</p> <p>C. 45°</p> <p>D. 360°</p>
5	A transistor has:	<p>A. One region</p> <p>B. Two regions</p> <p>C. Three regions</p> <p>D. Four regions</p> <p>E. None is correct</p>
6	The current through a metallic conductor is due to the motion of	<p>A. protons</p> <p>B. neutrons</p> <p>C. electrons</p> <p>D. free electrons</p>
7	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is	<p>A. 0.5 J</p> <p>B. 2 J</p> <p>C. 0.25 J</p> <p>D. 1 J</p>
8	When each particle of the fluid moves along a smooth path, this path is known as	<p>A. straight path</p> <p>B. smooth path</p> <p>C. haphazard path</p> <p>D. streamline</p>
		A. continuity condition

9	When the different streamlines cannot cross each other, then this condition is known as	<p>B. turbulent flow condition C. steady flow condition D. none of them</p>
10	An electric field is generated along the wire when:	<p>A. Its resistance is very high</p> <p>B. A constant potential is maintained across the wire</p> <p>C. Net current through the wire is zero</p> <p>D. A constant potential difference is maintained across the wire</p> <p>E. Either (A) or (D)</p>
11	A particle of mass 0.5 g moving along x-axis is located of $x_1 = 15$ m at $t_1 = 5$ s and $x_2 = 33$ m at $t_2 = 13$ s its average velocity is	<p>A. 6 m s^{-1} B. 2.45 m s^{-1} C. 2.25 m s^{-1} D. 4.45 m s^{-1}</p>
12	The distance from eye to near point is taken as:	<p>A. 10 cm B. 15 cm C. 20 cm D. 25 cm</p>
13	Recent studies of ferromagnetism have shown that there exists in ferromagnetic substances small regions called	<p>A. tiny regions B. domains C. vectors D. none of them</p>
14	Referring to above figure, due to change in current in the coil P, the change in magnetic flux:	<p>A. Is associated with coil P B. Is associated with coil S C. Causes an induced current in coil S D. All of these E. None of these</p>
15	A curie represents a very strong source of	<p>A. α-particle B. β-particle C. γ-particle D. none of these</p>
16	Biomass includes:	<p>A. Crop residue B. Natural vegetation C. Animal dung D. All of these</p>
17	In a normally biased n-p-n transistor, an electron current I_e flows from the	<p>A. emitter into the base B. collector into the base C. base into collector D. none of these</p>
18	The velocity of sound is greatest in	<p>A. Water B. Air C. Vacuum D. Metal</p>
19	Good absorbers of heat are	<p>A. Poor emitters B. Non emitters C. Good emitters</p>

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The material in the form of wire or rod or plate which leads the current into or out of the electrolyte is known as

D. Highly polarized

A. voltmeters

B. resistance

C. electrode

D. current