

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The value of electrical constant of proportionality k is	A. $9 \times 10^9 \text{ Nm}^2 \text{ C}^{-2}$ B. $9 \times 10^{-9} \text{ Nm}^2 \text{ C}^{-2}$ C. $9 \times 10^{10} \text{ Nm}^2 \text{ C}^2$ D. $9.85 \times 10^{-12} \text{ N}^{-1} \text{ C}^{-2}$
2	The CRO is used for displaying the waveform of a given	A. current B. voltage C. both of them D. none of them
3	Such an inductor coil which does not consume energy and is often employed for controlling a.c. without consumption of energy is called	A. Choke B. impedance C. Semi-conductor D. None
4	When a vector is multiplied by a negative number, its direction:	A. Remains the same B. Changes C. Changes by 180° D. None of these
5	In a resonance situation the amplitude of the motion may become extra ordinarily large, if	A. the driving force is large B. the driving force is zero C. the driving force may be feeble D. all of them
6	If the length of second pendulum becomes four times then its time period will become	A. Four time B. Two times C. Six times D. Eight times
7	1 amu is equal to	A. $1.66 \times 10^{-24} \text{ kg}$ B. $1.66 \times 10^{-19} \text{ kg}$ C. $1.66 \times 10^{-34} \text{ kg}$ D. $1.66 \times 10^{-27} \text{ kg}$
8	In order to get interference using two light rays	A. The sources should be monochromatic and coherent B. The sources should have the same frequency C. Superposition should be linear D. All of these
9	Electric potential of earth is taken to be zero because the earth is good	A. Semiconductor B. Conductor C. Insulator D. Dielectric
10	The wavelength of wave is 5000 \AA . This wave will be in region	A. U.V B. Visible C. Radio D. Infrared
11	The field in which work done in moving a body between two points depends upon the path followed is called:	A. Conservative field B. Non-conservative field C. Electric field D. None of these
12	Work-energy principle states that work done on the body by applied force is equal to change in:	A. Potential energy B. Kinetic energy C. Linear momentum D. None of these
13	Which of the following pairs does not have identical dimensions?	A. Torque and energy B. Energy and work C. Momentum and impulse D. Mass and moment of inertia

14	The basic circuit element in D.C. circuit is:	<p>A. A capacitor B. A resistor C. An inductor D. Both (A) and (C) E. Both (A) and (B)</p>
15	If 2.2 kilowatt power is transmitted through 1 10 ohm line at 22000 volt, the power loss in the form of heat will be	<p>A. 0.1 watt B. 1 watt C. 10 watt D. 100 watt</p>
16	If the absolute uncertainty of an instrument is 0.0a1 cm, then its least count will be :	<p>A. 0.005 cm B. 0.01 cm C. 0.02 cm D. 0.001 cm</p>
17	Two water pipes of diameters 4 cm and 8 cm are connected with a supply line. The velocity of flow of water in the pipe 4 cm diameter is	<p>A. 1/4 times B. 4 times C. Twice D. 1/2 of 8 cm diameter pipe</p>
18	The resistance offered by a fluid to a solid moving inside it is called:	<p>A. Drag force B. Surface force C. Viscosity D. None of these</p>
19	Angle between the ray of light and the corresponding wavefront is:	<p>A. 0° B. 60° C. 90° D. 120°</p>
20	Max plank received the Nobel Prize in physics for his discovery of energy quanta in	<p>A. 1900 B. 1906 C. 1912 D. 1918</p>