

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The SI unit of electric field intensity is	A. CN^{-1} B. NC^{-1} or Vm^{-1} C. JC^{-1} D. AV^{-1}
2	There is no way to detect:	A. Absolute uniform motion B. Accelerated motion C. State rest D. State of motion E. None of these
3	The electric field, magnetic field and the direction of their propagation are mutually	A. perpendicular B. parallel C. none of these
4	When velocity of moving body is doubled, the quantity which is also doubled is its:	A. K.E. B. Acceleration C. Momentum D. P.E.
5	The current produced by moving a loop of wire across a magnetic field is called:	A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these
6	In crystalline solids, atoms are held about their equilibrium positions depending upon the strength of:	A. Adhesive force B. Nuclear forces C. Inter atomic cohesive force D. Electromagnetic force E. None of these
7	When two waves with same frequency and constant phase difference interfere	A. There is a gain of energy B. There is a loss of energy C. The energy is redistributed and the distribution changes with time D. The energy is redistributed and the distribution remains constant with time
8	In the case of an incompressible fluid in steady flow the net rate of flow of mass entering one end of the tube of flow is equal to the net rate of flow of mass leaving the other end. This equation is called	A. Quadratic equation B. Equation of discontinuity C. Equation of continuity D. None of the above
9	Acceleration of a body is positive, if the velocity of the body is	A. constant B. increasing C. decreasing D. none of them
10	Two vectors having different magnitudes:	A. Have their directions opposite B. May have their resultant zero C. Cannot have their resultant zero D. None of these
11	The concept of direction is purely:	A. Absolute B. Relative C. Relative to stars always D. Relative to the sun always E. None of these
12	The consumption of energy by a 60 W bulb in 2 minutes is:	A. 2 watt-hour B. 120 watt-hour C. 30 watt-hour D. None of these
13	When monochromatic light is allowed to fall on cathode, it begins to emit electrons, these electrons are called	A. thermoionic electrons B. free electrons C. photoelectrons D. slow electrons
14	The stopping voltage for a certain metal is 100 volts, then the work function for the cathode plate is	A. 100 J B. 1.6×10^{-17} J C. 100 eV D. 1.6×10^{-17} eV

15	The obvious effect/s of current is/are:	<p>A. Heating effect</p> <p>B. Magnetic effect</p> <p>C. Chemical effect</p> <p>D. Both (C) and (B)</p> <p>E. All of these</p>
16	Albert Einstein got the Nobel prize in physics for his explanation of photoelectric effect in	<p>A. 1916</p> <p>B. 1919</p> <p>C. 1921</p> <p>D. 1923</p>
17	An L-R circuit has $R = 10 \Omega$ and $L = 2 \text{ H}$. If 120 V, 60 Hz A.C. voltage is applied, then current in the circuit will be	<p>A. 0.32 A</p> <p>B. 0.16 A</p> <p>C. 0.48 A</p> <p>D. 0.80 A</p>
18	The vertical and horizontal range will be equal id angle of projection is	<p>A. 76°</p> <p>B. 45°</p> <p>C. 60°</p> <p>D. 120°</p>
19	When the bob of simple pendulum is at extreme position, its K.E. will be	<p>A. maximum</p> <p>B. minimum</p> <p>C. zero</p> <p>D. all of them</p>
20	By CAT scans, we can detect the density difference of the order of:	<p>A. 1%</p> <p>B. 20%</p> <p>C. 30%</p> <p>D. 50%</p> <p>E. 70%</p>