

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Velocity is a	A. scalar quantity B. vector quantity C. constant quantity D. none of them
2	The frequency of free vibrations is known as	A. free frequency B. forced frequency C. natural frequency D. un-natural frequency
3	The work is stored in the inductor as	A. Electric potential energy B. Elastic potential energy C. Magnetic energy D. Absolute potential energy
4	The time rate of change of displacement is called:	A. Time B. Acceleration C. Speed D. Velocity
5	Glass is an example of	A. crystalline solid B. amorphous solid C. polymeric solid D. none of them
6	To turn the transistor OFF, the base current is set:	A. At maximum value B. At zero C. Either (A) or (B) D. All are correct E. None of correct
7	The electric lines of force are	A. Imaginary B. Physically existing everywhere C. Physically existing near the charge D. All of the above
8	A full-scale deflection is obtained in a galvanometer with a current of few	A. ampere B. volts C. milliampere D. ohm
9	The fourth band is a:	A. Silver band B. Red band C. Gold band D. Either A or C E. Either A or B
10	A train of 150 m length is going towards north direction at a speed of 10 ms^{-1} . A parrot flies at a speed of 5 ms^{-1} towards south direction parallel to the railway track. The time taken by the parrot to cross the train is equal to	A. 12 s B. 8 s C. 15 s D. 10 s
11	A relationship between Gauss of magnetic induction and Tesla(T) is given by	A. $G = 10^{-3} T$ B. $G = 10^{-2} T$ C. $G = 10^{-4} T$ D. $G = 10^{-1} T$
12	Wien's constant is measured in:	A. Metre per kelviin B. Metre kelvin C. Kelvin per meter D. Joules E. Dynes
13	During the negative half-cycle of the half-wave rectification, the diode	A. does not conduct B. conducts C. either of these D. none of these
14	The force experienced by a single charge carrier moving with velocity 'v' i magnetic field of strength 'B' is given by	A. $F = q(v/B)$ B. $F = qv^2/(v \times B)$ C. $F = q(v \times B)$ D. $F = vx B$ E. Tesla

15	The SI unit of flux density is.	B. Weber C. Gaun D. Weber/meter
16	Efficiency of carnot engine is independent of the	A. temperature of sink B. temperature of source C. nature of the working substances D. none of them
17	An example of photoconductor is:	A. <p> Boron</p> B. <p> Carbon</p> C. <p> Iron</p> D. <p> Aluminum</p> E. <p> Selenium</p>
18	Current is measured in	A. volts B. watt C. ohm D. ampere
19	The force applied on unit area to produce any change in the shape, volume or length of a body is known as	A. strain B. elasticity C. stretching D. stress
20	Which of the following does not exhibit S.H.M?	A. a plucked violin string B. a mass attached to a spring C. a train shunting between two terminals D. a simple pendulum