

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	During the steady flow, different streamlines	A. cannot across each other B. can across each other C. either of them D. neither of them
2	For the working of a heat engine, there must be	A. a source of heat at high temperature B. a sink at low temperature C. both of them D. none of them
3	The frequency of free vibrations is known as	A. free frequency B. forced frequency C. natural frequency D. un-natural frequency
4	Polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
5	The quantity having the same unit as that of emf is:	A. Force B. Energy C. Potential D. Current E. Charge
6	The molecules or ions in a crystalline solids are	A. static B. not static C. randomly moving D. all of them
7	Velocity of sound in vacuum (in m/s) is	A. 330 B. 1000 C. 156 D. 0
8	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval T/2 E. Both (C) and (D)
9	The value of output resistance of OP-AMOP is of the order of	A. few ohms B. few hundred ohms C. several kilo ohms D. several mega ohms
10	Find the total displacement of a body in 8 seconds starting from rest with an acceleration of 20 $\mbox{cm/s}^2$	A. 0.064 m B. 640 cm C. 64 cm D. 64 m
11	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
12	When a mass 'm' is pulled slowly, the spring stretches by an amount x_0 , then the work done will be	A. W=Kx _o B. W=1/2Kx _o C. W=1/2Kx ² _o D. W=4Kx _o
13	Substances which break just after the elastic limit is reached, are known as	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
14	Ohm established a relation between	A. voltage and resistance B. voltage and charge C. voltage and current D. voltage resistance and charge

15	When a conductor moved with its length parallel to the lines of magnetic fled:	A. An emf is induced across its ends B. Emf induced is similar to that of a battery C. Emf passes through the conducto D. Both A and B E. None of these
16	When each particle of the fluid moves along a smoth path, this path is known as	A. straight path B. smooth path C. haphazard path D. steamline
17	A car battery has e.m.f 12 volt and internal resistance 5 x 10^{-2} ohm. If it draws 60 ampere current, the terminal voltage of the battery will be	A. 5 volt B. 3 volt C. 15 volt D. 9 volt
18	In the forward biases situation, the current flowing across the p-n junction is a few:	A. amperes B. Milli amperes C. Micro amperes D. Pico amperes E. None of these
19	The SI unit of magnetic induction is tesla which is equal to	A. Newton/ampere-meter or N/A-m B. Newton/ampere ² - meter or N/A ² - meter or N/A ² - meter-sup>2- meter-sup>2 or N/A ² - meter-sup>2- D. Newton/ampere ² - meter ² - N/A ² - meter ² - N/A ² - meter ² - meter ² - N/A ² - meter ² - meter ² - meter ² - n/A ² - n/B
20	When there is no relative motion between the magnet and coil, the galvanometer indicated	A. No current in the circuit B. An increasing current C. A decreasing current D. A constant current E. Either B or C