

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Current is measured in	<p>A. volts B. watt C. ohm D. ampere</p>
2	In Pakistan electricity is supplied for domestic use at 220 V, it is supplied at 110 V in USA. If the resistance of a 60 W bulb for use in Pakistan is R, the resistance of a 60 W bulb for use in USA will be	<p>A. 2 R B. R/4 C. R/2 D. R</p>
3	Tick the conservative force:	<p>A. tension in a string B. Air resistance C. Elastic spring force D. Frictional force</p>
4	If a process cannot be retraced in the backward direction by reversing the controlling factors, it is	<p>A. a reversible process B. an irreversible process C. any one of them D. both of them</p>
5	The body will move with terminal velocity when it acquires	<p>A. minimum speed B. zero speed C. maximum speed D. none of them</p>
6	The ohm's is defined as	<p>A. 1 ampere / 1 volts B. 1 coulomb / 1 volt C. 1 volt / 1 ampere D. 1 volt / 1 coulomb</p>
7	The current produced by moving a loop of a wire across a magnetic field is called:	<p>A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these</p>
8	Two dissimilar metals joined at their ends kept at constant temperature constitute:	<p>A. Cell</p> <p>B. Voltmeter</p> <p>C. Thermocouple</p> <p>D. Potentiometer</p> <p>E. None of these</p>
9	Electric intensity at a place due to a charged conductor is a	<p>A. Scalar quantity B. Vector quantity C. Semi vector and semi scalar D. Dimensionless quantity E. Both A and D are true</p>
10	Bernoulli's equation is applicable for	<p>A. turbulent flow B. streamline flow C. both (a) and (b) D. all kinds of flows</p>
11	From the theory of relativity, momentum p of the photon is related to energy as	<p>A. $p = hf/c$ B. $p = hf/c$ C. $p = f(hc, f)$ D. $p = cf/h$</p>
		<p>A. brittle substances</p>

12	Lead, copper and wrought iron are examples of	B. ductile substances C. plastic substances D. elastic substances
13	The current through a metallic conductor is due to the motion of	A. protons B. neutrons C. electrons D. free electrons
14	The electric intensity outside the two oppositely charged parallel metal plates is	A. Maximum B. Minimum C. Zero D. Infinite
15	When heat is added into the system then change in entropy is	A. negative B. positive C. zero D. any one of them
16	A coil of constant area is placed in a constant magnetic field. An include current is produced in the coil when:	A. The coil is destroyed B. The coil is Rotated C. The coil is neither destroyed nor rotated D. Both (A) and (B) E. None of these
17	A certain force gives an acceleration of 2 m/sec ² to a body if mass 5 kg. The same force would give a 29 kg object an acceleration of:	A. 0.5 m/sec ² B. 5 m/sec ² C. 1.5 m/sec ² D. 9.8 m/sec ²
18	Compton studied the scattering of x-rays by loosely bound electrons from:	A. NaCl crystal B. Graphite crystal C. Zirconia D. Copper crystal E. None of these
19	To convert galvanometer into ammeter we connect	A. small resistance in parallel with galvanometer B. small resistance in series with galvanometer C. high resistance in series with galvanometer D. high resistance in parallel with galvanometer
20	Pair production take place when energy of γ -rays photon is	A. equal to 1.02 Mev- B. greater than 1.02 Mev C. less than 1.02 Mev D. none of these