

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	A body moving with uniform velocity has	A. positive acceleration B. negative acceleration C. infinite acceleration D. zero acceleration
2	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
3	The velocity gained by the fluid in falling through the distance $(h_1 - h_2)$ under the action of gravity is equal to the speed of the action of gravity is equal to the speed of the	A. orifices B. efflux C. fluid D. none of them
4	In which of the following diodes when an electron combines with a hole during the forward biasing, photon of visible light is emitted.	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them
5	Which of the following statements for an object in equilibrium is not true?	A. The object must be at rest B. The object can be at rest C. The object is moving at constant speed D. The acceleration of the object is zero
6	Two dissimilar metals joined at their ends kept at constant temperature constitute:	A. Cell<0:p> B. Voltmeter<0:p> C. Thermocouple D. Thermocouple<0:p> D. Potentiometer<0:p> E. None of these
7	The CRO deflects the beam of electrons, when they passes through uniform	A. electric field B. gravitational field C. magnetic flax D. magnetic field
8	A body walks to his school at a distance of 6 km with a speed of 2.5 km/h and walks back with a constant speed of 5 km/h. His average speed for round trip expressed in km/h is	A. 24/13 B. 10/3 C. 3 D. 4,8
9	One KWh is equal to:	A. 3.6 x 10 ² J B. 3.6 KJ C. 3.6 x 10 ¹ KJ D. 3.6 MJ
10	A process is a reversible process, if the entropy of the system	A. increases B. decreases C. remains constant D. none of them
11	The SI unit of charge is	A. Ampere B. Watt C. Coulomb D. Volt E. Joule
		A. Square wave

12	A traveling wave has a shape of:	B. Sine wave C. Parabola D. hyperbola
13	The internal energy of a system does not depend upon the	A. initial state of the system B. final state of the system C. path D. none of them
14	Blood is an	A. Compressible fluid B. incompressible fluid C. hard D. none of them
15	Above the curie temperature, iron becomes	A. ferromagnetic B. paramagnetic C. diamagnetic D. any one of them
16	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these
17	The magnitude of induced emf depends upon the:	A. Rate of decrease of magnetic field B. Rate of change of magnetic field C. Rate of increase of magnetic flux D. Constancy of magnetic field E. None of these
18	An electric charge at rest is	A. Only an electric field B. Only a magnetic field C. Both electric and magnetic fields D. None of the above
19	The RMS value of alternating current is:	A. 0.7 times at the peak value B. 0.5 times the peak value C. 0.7 times the Instantaneous value D. Equal to maximum voltage E. None of these
20	When the velocity of a liquid flowing steadily in a tube increases, its pressure?	A. Decreases B. Increases C. Remains same D. Zero