

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	The vertical component of velocity of a projectile during its motion is minimum	A. at the time of projection B. at the highest point C. just before hitting the plane of projection D. all of them
2	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
3	For inducting emf in a coil the basic requirement is that:	A. Flux should link the coil B. Change in flux should link the coil C. Coil should form a closed loop D. Both B and C are true
4	A high concentration of red blood cells increases its viscosity from	A. 3 - 5 times that of mercury B. 5 - 8 times that of mercury C. 3 - 5 times that of water D. 5 - 8 times that of water
5	During the whole carnot cycle	A. Thermal equilibrium is maintained B. mechanical equilibrium is maintained C. both the thermal and mechanical equilibrium maintained D. both the thermal and mechanical equilibrium is not maintained
6	The waves moving from a sitar to a listener in air are	A. Longitudinal progressive B. Longitudinal stationary C. Transverse progressive D. Transverse stationary
7	An example of photoconductor is:	A. Boron<o:p></o:p> B. Carbon<o:p></o:p> C. Inon<o:p></o:p> D. Inon<o:p></o:p> D. Aluminum<o:p< p=""> </o:p<> E. Selenium<o:p></o:p>
8	Internal energy is the sum of all the forms of	A. K.E B. P.E C. both of them D. none of them
9	The third band of the colour code:	A. Gives the number of zeroes B. Is decimal multiplier C. Gives the resistance tolerance D. Gives the third digit E. Both (A) and (B)
10	Nucleus of a hydrogen atom may contain:	A. One neutron only B. Two protons and one neutron C. Two protons and two neutrons D. Aany of above E. One proton only

11	The SI unit of magnetic flux is	A. NmA ⁻² B. NmA ⁻¹ C. NAm ⁻¹ D. Nm ² A ⁻¹
12	'K' is the proportionality constant of force experienced by conductor. What is the value of 'K' in SI units?	A. 0 B. 1 C. 0.5 D1
13	A resistance used in voltmeter is called	A. shunt resistance B. high resistance C. low resistance D. zero resistance
14	The 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
15	For an atom having atomic number 'Z' and atomic weight 'A', the number of neutrons in the nucleous is	A. A - Z B. A C. Z D. A + Z
16	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
17	The distance covered by a body in unit time is called.	A. Displacement B. speed C. Velocity D. Both B and C
18	The time required to complete on vibration is called	A. frequency B. total time C. time period D. velocity
19	if the field is directed along the normal to the area, then flux is:	A. Maximum<o:p></o:p> B. Equal to zero<o:p></o:p> C. Equal to BA<o:p></o:p> D. Equal to BA<o:p></o:p> E. Minimum<o:p></o:p> E. Both (A) and (C)<o:p></o:p>
20	As the bob of the pendulum moves to and fro which of the force is experienced by the bob	A. its weight B. tension in the string C. viscous drag force by air D. all of them