ECAT Physics Online Test

Sr	Questions	Answers Choice
1	The resistance of an incandescent lamp is	A. Smaller when switched on B. Greater when switched off C. The same whether it is switch off or switch on D. Greater when switched on
2	The measure of the deformation in a solid when stress is applied to its is called	A. elastic constant B. young's modulus C. strain D. elasticity
3	The sum of positive and negative peak values is called:	A. Instantaneous value B. Peak value C. Rms valuie D. Peak-to peak-value E. None of these
4	The solids which has structure in-between order and disorder are called	A. amorphous solids B. polymeric solids C. crystalline solids D. all of them
5	If the two charges in Coulomb's law have double distance between them, then electric force	A. Becomes two-fold B. Becomes four-fold C. Remains the same D. None of these
6	The magnitude of chemical Effects depends upon:	A. <p class="MsoNormal" style="text-align:justify">Nature of liquid<o:p></o:p></p> B. <p class="MsoNormal" style="text-align:justify">Quantity of Electricity passed through the liquid<o:p></o:p></p> C. <p class="MsoNormal" style="text-align:justify">Color of the liquid<o:p></o:p></p> D. <p class="MsoNormal" style="text-align:justify">Both (A) and (C)<o:p></o:p></p> E. <p class="MsoNormal" style="text-align:justify">Both (A) and (B)<o:p></o:p></p>
7	Distance covered by a freely falling body in 2 sec will be	A. 4.9 m B. 19.6 m C. 29.2 m D. 44.1 m
8	An emf is set up in a conductor when it	A. Is kept in a magnetic field B. Is kept in an electric field C. Moves across a magnetic field D. Both A and B E. None of these
9	The location and speed anywhere on earth can now be determined using relativistic effects by NAVISTAR to an accuracy of	A. 2 cm/s B. 20 cm/s C. 200 cm/s D. 2000 cm/s
10	Solar cell converts sunlight directly into	A. potential energy B. thermal energy C. mechanical energy D. electrical energy
11	A unit cell is smallest basic structure which is:	A. One dimensional B. Two dimensional C. Three dimensional

11	A unit cell is smallest basic structure which is:	C. Three dimensional D. Four dimensional E. None of these
12	The waves produced in a microwave oven have frequency	A. 2450 Hz B. 2450 K Hz C. 2450 M Hz D. 2450 G Hz
13	Energy is not carried by	A. Transverse progressive waves B. Longitudinal vibration C. Stationary waves D. Electromagnetic
14	The electric field lines start from	A. Positive charge B. Negative charge C. Either A or B D. Neutron E. An atom
15	'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 D. -1
16	For normal operation of transistor, the batteries	A. V_{CC}is of much lower value than V_{BB} B. V_{CC}is of much higher value than V_{BB} C. V_{CC is equal to}V_{BB} D. none of these
17	Inverter is the name given to:	A. NOT gate B. OR gate C. NOR gate D. AND gate E. XOR gate
18	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
19	Aluminum is a:	A. <p class="MsoNormal">Good insulator<o:p></o:p></p> B. <p class="MsoNormal">Bad conductor<o:p></o:p></p> C. <p class="MsoNormal">Both (A) and (B)<o:p></o:p></p> D. <p class="MsoNormal">Excellent conductor<o:p></o:p></p> E. <p class="MsoNormal">Semiconductor<o:p></o:p></p>
20	It is possible to recognize a person by hearing his voice even if he is hidden behind a solid wall. This is due to the fact that his voice	A. Has a definite pitch B. Has a definite quality C. Has a definite capacity D. Can penetrate the wall