

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Swimming is based on the principle of	A. Newton's 1st law B. Newton's 2nd law C. Newton's 3rd law D. All
2	The r.m.s. value of alternating current is equal to its maximum value at angle of	A. 60 ° B. 45 ° C. 30 ° D. 90 °
3	Instead of moving the coil towards a magnet, the magnet is moved towards the coil with the same speed. The galvanometer shows current	A. Of same magnitude in the same direction B. Of different magnitude in the same direction C. Of same magnitude but in opposite direction D. Of different magnitude in the opposite direction E. None of these
4	When a transistor is used as a switch the circuit in which the current is to be switched OFF and ON, is connected between the	A. base and emitter B. collector and emitter C. base and collector D. any one of these
5	The chemical behaviour of an atom is determined by	A. binding energy B. atomic number C. mass number D. number of isotopes
6	Intensity of light determines the:	A. Energy of each photon B. Number of photons C. Speed of photons D. Size of photons E. None of these
7	A ball is thrown upwards with a velocity of 100 m/s. It will reach the ground after	A. 10 s B. 20 s C. 5 s D. 40 s
8	The velocity of sound at same temperature is maximum in	A. H ₂ B. N ₂ C. O ₂ D. NH ₃
9	If the distance between the plates of a parallel plate condenser of capacity 10 μ F is doubled then new capacity will be	A. 5 µ F B. 20 µ F C. 10 µ F D. 15

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10	A body is moving with constant velocity of 10 m/sec in the north east direction. Then its acceleration will be:	A. 10 m/sec2 B. 20 m/sec2 C. 30 m/sec2 D. Zero
11	A body is executing free vibrations when it oscilates	A. with the interference of an externa force B. without the interference of an external force C. with the interference of an internal force D. none of them
12	Electric flux is defined by the relation	A. E.A. B. E x A C. E/A D. none of these
13	Angular momentum	A. Scalar B. Axial vector C. Polar vector D. At 45 ° angle
14	The waves in which the particles of the medium have displacement along the direction of propagation of waves are called	A. longitudinal waves B. transverse waves C. non-mechanical waves D. none of them
15	Thermocouple is an arrangement of two different metals	A. To convert heat energy in to electrical energy B. To produce more heat C. To convert heat energy into chemical energy D. To convert electric energy in to heat energy
16	The Phenomenon of generation of induced emf is called	A. Electrostatic induction B. Magnetic induction C. Electromagnetic induction D. Electric induction E. Both A and B
17	Newton published laws of motion in his famous book "principia" in	A. 1867 B. 1667 C. 1676 D. 1687
18	When the bob of simple pendulum is at mean position, its K.E will be	A. maximum B. minimum C. zero D. all of them
19	The voltage increases linearly with	A. time B. velocity C. acceleration D. torque
20	The time interval during which the Voltage source changes its polarity once is known as:	A. Time period T B. Half the time period C. Quarter the time period D. Two third of the time period E. None of these