

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	The alternative voltage of current is actually measured by:	A. Its RMS value B. Square root of its mean square value C. Instantaneous value D. Peak value E. Both (A) and (B)
2	A coil of constant area is placed in a constant magnetic field. An induced current is produced in the coil when	A. The coil is distorted B. The coil is rotated C. The coil is neither distorted nor rotated D. Both A and B E. None of these
3	The locus of all points in a medium having same phase of vibration is called	A. Crest B. Trough C. Wavelength D. Wave-front
4	A body absorbs heat a constant temperature , then this phenomenon will be.	A. Melting point B. Evaporation C. Boiling point D. Both A and B
5	If R is gas constant for 1 gram mole, C_p and C_v are specific heat for a solid then	A. $C_p - C_v = R$ B. $C_p - C_v < R$ C. $C_p - C_v = 0$ D. $C_p - C_v > R$
6	The electric field lines start from	A. Positive charge B. Negative charge C. Either A or B D. Neutron E. An atom
7	By convention, torques producing clockwise rotation are taken as:	A. Positive B. Negative C. Zero D. None of these
8	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
9	The percentage of available heat energy converted into work by a diesel engine is roughly	A. 35 % B. 40 % C. 35 - 40 % D. 25 %
10	The direction of vector in space is specified by:	A. One angle B. Two angles C. Three angles D. None of these
11	X-rays can penetrate in a solid matte through a distance of several:	A. Kilo metres B. Metres C. Centimeters D. A few angstroms E. One micrometer
12	A vector of magnitude 5 N is added to a vector of magnitude 8 N while the orientations are changeable. Range of their possible sum will be very from:	A. Zero to 3 N B. 1 N to 13 N C. 13 N to 3 N D. None of these
13	Solar cell converts sunlight directly into	A. potential energy B. thermal energy C. mechanical energy D. electrical energy
14	In describing functions of digital systems, a closed switch will be shown as	A. 0 B. 1 C. low D. any one of these

15	Which of the following statements for an object in equilibrium is not true?	<p>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</p>
16	We can express the work in term of	<p>A. directly measurable variables B. indirectly measurable variables C. either of them D. both of them</p>
17	If both the inputs given to a gate are 1 such that the output is 0, then it is:	<p>A. AND gate B. NOR gate C. OR gate D. NOT gate E. Both (A) and (C)</p>
18	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	<p>A. 24/13 B. 10/3 C. 3 D. 4,8</p>
19	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	<p>A. Increases</p> <p>B. Decreases</p> <p>C. Remains the constant</p> <p>D. Either of these</p> <p>E. None of these</p>
20	In a straight current carrying conductor, the direction of magnetic field can be found by	<p>A. right hand rule B. left hand rule C. head to tail rule D. none of these</p>