

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Light waves are:	<p>A. Transverse wave B. Longitudinal wave C. Compressional wave D. None of them</p>
2	Change in momentum is one second is called:	<p>A. Impulse B. Force C. Energy D. Work</p>
3	The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be $10^{-19}N$, is	<p>A. 25 B. 225 C. 625 D. 1250</p>
4	A solenoid is a coil of wire which is:	<p>A. Short, loosely wound, cylindrical</p> <p>B. Long, tightly wound, spherical</p> <p>C. Long, loosely wound, cylindrical</p> <p>D. Long, tightly wound, cylindrical</p> <p>E. None of these</p>
5	the symbol to be used in relativity problems denotes:	<p>A. Dilated time B. Proper time C. Life time D. Half time E. None of these</p>
6	Triple point of water is	<p>A. 273.16°F</p> <p>B. 372.16K</p> <p>C. 273.16°F</p> <p>D. 273.16</p>
7	A rotating body tends to be slower, when its angular acceleration is:	<p>A. Positive B. Negative C. Zero D. Infinity</p>
8	The heat required to raise the temperature of one mole of the gas through 1 K at constant volume is called	<p>A. heat capacity B. specific heat capacity C. molar specific heat D. molar specific heat at constant volume</p>

9	Mathematical manipulation of the two quantized states can be best carried if they are represented by	A. high - low B. yes - no C. on - off D. 0 - 1
10	When a nucleus emits an alpha particle, its atomic mass decreased by	A. 2 B. 1 C. 4 D. 3
11	A line which represents the direction of travel of a wave is known as:	A. Spherical Wavefront B. Locus C. Ray D. Either B or C
12	The electric field will be uniform	A. Near a positive point charge B. Near a negative point charge C. Between two oppositely charged parallel metal plates D. None of above
13	The charge carriers in electrolyte are positive and negative	A. protons B. electrons C. ions D. none of these
14	The inside cavity of the black body is	A. painted white B. painted silver C. blackened with soot D. painted red
15	If m is the mass of the gases ejected per second with velocity v relative to the rocket of mass M , then the acceleration of rocket is	A. $a = M/mv$ B. $a = mM/v$ C. $a = mv/M$ D. $a = v/mm$
16	If ' V ' is the relativistic speed and ' C ' is the speed of light then according to Einstein the factor V/C must always be	A. Equal to 1 B. Less than 1 C. Greater than 1 D. Infinity
17	The motion of a body in a straight line is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
18	An isochoric process is one which takes place at	A. Constant internal energy B. Constant entropy C. Constant volume D. Constant pressure
19	If a system undergoes a natural process it will go in the direction that causes the entropy of the system plus the environment to increase, this is another statement of	A. second law thermodynamics B. first law of thermodynamics C. third law of thermodynamics D. none of them
20	In L.C.R series A.C. circuit, the phase angle between current and voltage is	A. Any angle between 0 and π B. Any angle between 0 and $\pi/2$ C. Any angle between $\pi/2$ and π D. Any angle between 0 and π