

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	In the formula for finding the speed of waves in the spring, unit of m in Slh units is:	A. kg B. kg-meter C. kg/meter D. Meter/kg
2	Which one of the following elasticizes is possessed by fluids:	A. Young's elastic modulus (length) B. Bulk elastic modulus (volume) C. Modulus of rigidity (shape) D. None of these
3	Tick the conservation force:	A. Tension in a string B. Air resistance string C. Elastic spring force D. Frictional force
4	If we increase the distance between two plates of the capacitor, the capacitance will	A. Increase B. Decrease C. Remain same D. First increase then decrease
5	In radio-active decay, the original element which disintegrate to another element is called	A. element B. daughter element C. parent element D. none of these
6	An inertial frame of reference is a frame of reference which is	A. at rest B. moving with uniform velocity C. either at rest or moving with uniform velocity D. none of these
7	For maximum linear distance of travel, a projectile must be fired at an angle of	A. 0° B. 45° C. 90° D. 60°
8	After alpha decay the atomic number of the atom	A. increase by four B. decreases by two C. increases by two D. decrease by four
9	The discuss used by athlete has a mass of 1 kg, its weight in newton is	A. 9.8 N B. 80 N C. 98 N D. 100 N
10	The expression $F \times t$ is called impulse if the time 't' is	A. zero B. very large C. very small D. infinite
11	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
12	de-Broglies hypthesis was experimentally verified by	A. Maxwell B. Compton C. Einstein D. Davison and Germer
13	During the steady flow, different streamlines	A. cannot across each other B. can across each other C. either of them D. neither of them
		A. Wien's constant

14	The ratio of energy E to the corresponding frequency (f) of the radiation (emitted or absorbed) is called:	<p>B. Stefen's constnat C. Planck's constant D. Boltzmann's constant E. None of these</p>
15	NmA^{-1} is commonly called:	<p>A. Weber B. Apmere C. Guass D. Coulomb E. None of these</p>
16	When platinum wire is heated, it appears cherry red at	<p>A. 1600°C B. 900°C C. 1100°C D. 1300°C</p>
17	A potential barrier of 0.7V exists across p-n junction made from:	<p>A. Germanium B. Silicon C. Arsenic D. Gallium E. Indium</p>
18	The motion of a projectile is	<p>A. one dimension B. two dimension C. three dimension D. all of them</p>
19	The Boltzman constant has the value	<p>A. $1.38 \times 10^{-23} \text{JK}^{-1}$ B. $1.28 \times 10^{-23} \text{JK}^{-1}$ C. $1.38 \times 10^{-26} \text{JK}^{-1}$ D. $1.28 \times 10^{-26} \text{JK}^{-1}$</p>
20	If the acceleration of a body is negative, then slope of the velocity-time graph will be:	<p>A. Zero B. Positive C. Negative D. Infinity</p>