

Physics ECAT Pre Engineering Chapter 3 Motion and Force Online Test

Sr	Questions	Answers Choice
1	One KWh is equal to:	A. 3.6×10^{22} J B. 3.6 KJ C. 3.6×10^{21} KJ D. 3.6 MJ
2	The velocity given to a body to go out of the influence of earth's gravity is known as:	A. Terminal velocity B. Orbital velocity C. Escape velocity D. None of these
3	When two protons are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
4	A body of weight 1 N has a kinetic energy of 1 joule when its speed is:	A. 1.46 m sec^{-1} B. 2.44 m sec^{-1} C. 3.42 m sec^{-1} D. 4.43 m sec^{-1}
5	Tick the conservative force:	A. tension in a string B. Air resistance C. Elastic spring force D. Frictional force
6	Work done along a closed path in a gravitational force is:	A. maximum B. Minimum C. Zero D. Unity
7	The time rate of change of displacement is called:	A. Time B. Acceleration C. Speed D. Velocity
8	One newton is a force that produces an acceleration of 0.5 m/sec^2 in a body of mass:	A. 2 kg B. 3 kg C. 4 kg D. 8 kg
9	Force is a:	A. Scalar quantity B. Base quantity C. Derived quantity D. None of these
10	An object is dropped from a height of 100 m. Its velocity at the moment it touches the ground is:	A. 100 m/sec B. 140 m/sec C. 1960 m/sec D. 196 m/sec
11	Bodies which falls freely under gravity provides good example of motion under:	A. Uniform acceleration B. Non-uniform acceleration C. Uniform velocity D. None of these
12	Swimming becomes possible because of _____ law of motion:	A. First B. Second C. Third D. None of these
13	A dirty carpet is to be cleaned by heating. This is an accordance with _____ law of motion:	A. First B. Second C. Third D. None of these
14	A certain force gives an acceleration of 2 m/sec^2 to a body if mass 5 kg. The same force would give a 29 kg object an acceleration of:	A. 0.5 m/sec^2 B. 5 m/sec^2 C. 1.5 m/sec^2 D. 9.8 m/sec^2
15	Slope of velocity-time graph represents:	A. Acceleration B. Speed C. Torque D. Work

