

ECAT Physics Chapter 4 Work and Energy Online Test

Sr	Questions	Answers Choice
1	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
2	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
3	A field in which the work done in moving a body along closed path is zero is called	A. Nuclear Field B. Conservative field C. Gravitational field D. Non-conservative field
4	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is	A. 0.5 J B. 2 J C. 0.25 J D. 1 J
5	The work done in moving a body between two points in a conservative field is independent of the	A. Direction B. Force applied C. Path followed by the body D. Power
6	Which of the following types of force can do no work on the particle on which it acts	A. Frictional force B. Gravitational force C. Electric force D. Centripetal force
7	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done is 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
8	The Space around the Earth within which it exerts a force of attraction on other bodies is known as	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
9	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
10	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
11	If force and displacement are in opposite direction, the work done is taken as	A. Positive work B. Negative work C. Zero work D. Infinite work
12	The work performed on an object does not depend on	A. Force applied B. Angle at which force is inclined to the displacement C. Initial velocity of the object D. Displacement
13	Work is always done on a body when	A. A force acts on it B. It moves through certain distance C. None of A or B is correct D. Both A and B are correct
14	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
15	Which one is conservative force	A. Electric force B. Frictional force C. Normal force D. None of these

