

## ECAT Physics Chapter 4 Work and Energy Online Test

Sr	Questions	Answers Choice
1	When the body moves against the force of friction on a horizontal plane, the work done by the body is:	A. Positive B. Negative C. Zero D. None of these
2	In the force applied is parallel to the direction of motion, then work done is:	A. Maximum B. Minimum C. Zero D. None of these
3	A two Kg block is held 1 m above the floor for 50 seconds, the work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
4	Work done in lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
5	The angle between centripetal force and displacement of the body moving in a circle is:	A. 0° B. 90° C. 180° D. None of these
6	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
7	The work done 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
8	The field in which work done in moving a body between two points depends upon the path followed is called:	A. Conservative field B. Non-conservative field C. Electric field D. None of these
		A. 60° B. 90°

- 9 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 the direction of motion will be:  
C.  $30^\circ$   
D.  $0^\circ$
- 10 The space around the earth within it exerts a force of attraction on other bodies of known as:  
A. Nuclear field  
B. Conservative field  
C. Electric field  
D. Gravitational field
- 11 Work done is maximum when angle between force and displacement is:  
A.  $0^\circ$   
B.  $90^\circ$   
C.  $180^\circ$   
D. None of these
- 12 Work has the dimension as that of:  
A. Torque  
B. Angular momentum  
C. Linear momentum  
D. Power
- 13 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
- 14 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
- 15 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 is correct