

ECAT Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Work done is maximum when angle between force and displacement is	<p>A. 0° B. 90° C. 180° D. None of these</p>
2	Work done is independent of path followed in _____	<p>A. Gravitational field B. Magnetic field C. Electric field D. All of these</p>
3	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:	<p>A. 60° B. 90° C. 30° D. 0°</p>
4	A 100 kg car is moving at a speed of 10 m/sec and comes to rest after covering a distance of 50 m. the amount of work done against friction is:	<p>A. $+5 \times 10^1$ J B. $+5 \times 10^2$ J C. $+5 \times 10^3$ J D. $+5 \times 10^4$ J</p>
5	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is:	<p>A. 2 J B. 0.25 J C. 1 J D. 0.5 J</p>
6	In the force applied is parallel to the direction of motion, then work done is:	<p>A. Maximum B. Minimum C. Zero D. None of these</p>
7	The work done in moving a body between two points in a conservative field is independent of the	<p>A. Direction B. Force applied C. Path followed by the body D. Power</p>
8	When a wall is pushed by a person very strongly, he has done:	<p>A. Maximum work B. Zero work C. Positive work D. Negative work</p>
9	SI Unit of work is	<p>A. Nm B. Joule C. Nms D. ...</p>

		D. Both a and b
10	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
11	The space around the earth in which its gravitational force acts on a body is called	A. Electric Field B. Gravitational field C. Magnetic field D. Conservative field
12	The consumption of energy by a 60 W bulb in 2 minutes is:	A. 2 watt-hour B. 120 watt-hour C. 30 watt-hour D. None of these
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	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
15	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
16	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
17	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
18	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
19	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
20	The dimensions of work	A. $[MLT^{-1}]$ B. $[MLT^{-2}]$ C. $[ML^2T^{-2}]$ D. $[MLT]$