

ECAT Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
2	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
3	The work done in moving a body between two points in a conservation field is independent of the:	A. Direction B. Force applied C. Path followed by the body D. Power
4	When two protons are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
5	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:	A. 60° B. 90° C. 30° D. 0°
6	SI Unit of work is	A. Nm ⁻¹ B. Joule C. Nms D. Both a and b
7	When force and displacement are perpendicular to each other than work is equal to	A. Unity B. Infinity C. Zero D. -Fd
8	If we draw a graph between d(along x-axis) and F (along y-axis) and get a straight line horizontal to x-axis then area under this straight line represents:	A. Power B. Work C. Pressure D. None of these
9	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
10	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
11	The field in which work done is moving 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
12	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
13	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
14	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
15	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°
16	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
17	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
18	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
19	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
20	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

