

## ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
2	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
3	The dimensions of work	A. $[MLT^{-1}]$ B. $[MLT^{-2}]$ C. $[ML^2T^{-2}]$ D. $[MLT]$
4	The work done by a force, keeping an object in circular motion with constant speed is:	A. Zero J B. 1 J C. 0.1 J D. 0.01 J
5	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
6	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
7	A 2 kg block is held 1 m above floor for 50 seconds. The work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
8	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A and B is correct D. Both A and B is correct
9	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
10	The total work done in moving the body up and then down through the same height in a gravitational field is equal to:	A. mgh B. Its weight C. Weight X height D. Zero
11	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
12	1 J = _____?	A. $10^7$ erges B. $10^{-7}$ erges C. $10^5$ erges D. $10^{-5}$ erges
13	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
14	Which of the following type 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
15	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these

16	The work done on the body will be zero if:	A. No force is applied on the body B. Force is applied but no displacement C. Angle between F(force) and d(displacement) is $90^\circ$ D. All of these are correct
17	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
18	Work done in lowering a bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
19	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
20	If the force applied is parallel to the direction of motion, then work done is:	A. Maximum B. Minimum C. Zero D. None of these