

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

Sr	Questions	Answers Choice
1	When a wall is pushed by a person very strongly, he has done:	A. Maximum work B. Zero work C. Positive work D. Negative work
2	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
3	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
4	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
5	Work done in lower and bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
6	A boy pulls a toy car through a distance of 5 m by applying a force of $0.5$ N, which makes and angle of $60^\circ$ with the horizontal. The work done by the boy is:	A. 1.25 J B. 12.5 J C. 125 J D. None of these
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 in 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
8	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
9	When the body is 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
10	When force and displacement are perpendicular to each other than work is equal to	A. Unity B. Infinity C. Zero DFd
11	When a 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
12	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
13	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
14	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
15	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b

16	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
17	When velocity of moving body is doubled, the quantity which is also doubled is its:	A. K.E. B. Acceleration C. Momentum D. P.E.
18	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
19	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
20	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