

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

Sr	Questions	Answers Choice
1	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
2	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
3	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
4	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
5	Teh consumption of energy by a 1000 watt heater in half an hour is:	A. 5 Kwh B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh
6	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
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 is 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
8	1 J = _____?	A. 10 <sup>7</sup> erges B. 10 <sup>-7</sup> erges C. 10 <sup>5</sup> erges D. 10 <sup>-5</sup> erges
9	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, Which makes an angle of 60° 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
10	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these

11	Work is a Quantity	B. Scalar C. Non-physical D. None of these
12	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
13	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
14	If one newton force acts on a body and displaces the body through 1m work done on body is	A. 1 dyne B. 1 joule C. 1KJ D. 1 Watt
15	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
16	SI Unit of work is	A. Nm <sup>-1</sup> B. Joule C. Nms D. Both a and b
17	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
18	Work done is lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
19	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
20	The amount of coal used since 1945 up till now as compared to that used in the whole of history before that is	A. Much more B. Very small C. No amount at all D. None of these