

ECAT Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	When two protons are brought are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
2	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
3	Area under the force displacement graph gives	A. Power B. Work C. Heat D. Energy
4	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
5	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
6	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
7	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
8	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
9	Work done is independent of path followed in _____	A. Gravitational field B. Magnetic field C. Electric field D. All of these
10	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
11	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
12	The energy stored int he water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
13	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
14	A field in which the work done is moving a body along closed path is zero is called:	A. Nuclear filed B. Conservative field C. Gravitational field D. Non-conservative field
15	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these

16	Work is a:	<p>A. Scalar quantity B. Vector quantity C. Base quantity D. None of these</p>
17	Work is always done on a body when:	<p>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</p>
18	Which force is not a conservative force?	<p>A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force</p>
19	Watt x second is unit of:	<p>A. Force B. Work C. Power D. None of these</p>
20	Work done along a closed path in a gravitational field is:	<p>A. Maximum B. Minimum C. Zero D. Unity</p>