

ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	When force and displacement are perpendicular to each other than work is equal to	A. Unity B. Infinity C. Zero D. -Fd
2	A labourer carrying a distance a load on his head moves from rest on a horizontal road to another point where he comes to rest. He has done:	A. Minimum work B. Maximum work C. Zero work D. Negative work
3	The value of escape velocity of Earth planet comes out to be:	A. 11 m/sec B. 11 km/sec C. 11 km/hour D. 11 cm/sec
4	Area under the force displacement graph gives	A. Power B. Work C. Heat D. Energy
5	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
6	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. 2 J B. 0.25 J C. 1 J D. 0.5 J
7	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
8	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°
9	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
10	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
11	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
12	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 wight C. Weight X height D. Zero
13	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
14	Work is a 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
15	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

16	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
17	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
18	Which one is conservative force	A. Electric force B. Frictional force C. Normal force D. Air resistance
19	The 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
20	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
