

ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
2	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinte work
3	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
4	The angle between centripetal force and displacement of the body moving in a circle is:	A. 0° B. 90° C. 180° D. None of these
5	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
6	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
7	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
8	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
9	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
10	Work is a Quantity	A. Vector B. Scalar C. Non-physical D. None of these
		A. Electric energy

11	The energy stored in the water of the dam is:	B. Kinetic energy C. Potential energy D. None of these
12	When force and displacement are perpendicular to each other then work is equal to	A. Unity B. Infinity C. Zero D. $-Fd$
13	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
14	A 100 Kg car is moving at the speed of 10 m/sec and comes to rest after covering a distance of 50 m. The amount of work done against the friction is:	A. $+5 \times 10^1$ J B. $+5 \times 10^2$ J C. $+5 \times 10^3$ J D. $+5 \times 10^4$ J
15	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
16	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
17	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
18	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
19	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
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 the direction of motion will be:	A. 60° B. 90° C. 30° D. 0°