

## Work, Energy and Power

Sr	Questions	Answers Choice
1	One unit of horsepower is equivalent	A. 716 W B. 746 W C. 736 W D. 756W
2	The energy possessed by abody by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
3	The magnitude of momentum of an object is doubled. the kinetic energy of the object will	A. Double B. Increase to four times C. Reduce to one half D. Remain the same
4	Which one is renewabel source of	A. Coal B. Uranium C. Sunlight D. Natural gas
5	What is the power utilized when 100 J of work is done in 5 s.10 W	A. 10 W B. 500 W C. 20 W D. 105 W
6	A ball weighing 50 N is lifted to a height of 5 metre. The potential energy stored in it is.	A. 25 J B. 250 J C. 55 J D. 45 J
7	A bullet of mass 0.05 kg has a speed of 300 ms-1. Its kinetic energy will be.	A. 2250 J B. 4500 j C. 1500 J D. 1125 J
8	A car, an ele;phant and a cricket ball have same kinetic energies, Which of these have greater speed.	A. Car B. Cricket ball C. All have same speed D. Elephant
9	A heavy and a lighter object have same momentum. The object with greater kineic energy is.	A. Heavy B. Lighter C. Same kinetic energy D. Either a or b
10	The type of energy derived from heated groud water is	A. Tidal energy B. Hydroelectric energy C. Nuclear energy D. Geothermal energy
11	If a car doubles its speed, its kinetic energy will be	A. Increased to four times B. The same C. Doubled D. Increased to the three times
12	A weight lifter of power 1960watt lifts a load of mass 'M' from the ground to a ehght of 2 m in 3 second 'M' is.	A. 200 kg B. 100 kg C. 400 kg D. 300 kg
13	A Partical enegine cannot have an efficiency equal to.	A. 0 B. 1 C. 0.8 D. 0.5
14	A 4 kg body is thrown vertically upward fromt he gorund with a velocity of 5 ms-1. If frictin is neglected tis kinetic energy just before hitting the ground is.	A. 25 J B. 100 J C. 50 J D. 75 J
15	A force is acting on body but causes no displacemtn. The work done on the body is	A. Negative B. Zero C. Positive D. Infinite

Work done is maximum when the angle between the force F and the displacemtn d is	A. 60 <sup>o</sup> B. 30 <sup>o</sup> C. 0 <sup>o</sup> D. 90 <sup>o</sup>
The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
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The power of a waer pump is 2 kW. The amoutn of water it can raise in one minute to a height of 5 meter is	A. 2400 litres B. 1000 litres C. 1200 litres D. 2000 litres
A ball is thrown downward with an initial velocity, its.	A. Ek increases and Ep decreases B. Ek decreases and Ep increases C. Both Ek and Ep increases D. Both Ek and Ep decreases
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