

## Work, Energy and Power

_		
Sr	Questions	Answers Choice
1	The SI unt of power	A. erg B. Newton C. Watt D. Joule
2	Which of the following is not renewable eergy soruce.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
3	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
4	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
5	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
6	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
7	The energy possessed by abody by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
8	A Joule can also be written as.	A. kgms <sup>-2</sup> B. kgms <sup>-1</sup> C. kgms <sup>-2</sup> S <sup>-2</sup> D. kgms <sup>-2</sup> S <sup>-3</sup>
9	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
10	Which one is renewabel source of	A. Coal B. Uranium C. Sunlight D. Natural gas
11	The type of energy derived from heated groud water is	A. Tidal energy B. Hydroelectric energy C. Nuclear energy D. Geothermal energy
12	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
13	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
14	The unit of work or energy joule is equal to	A. Newton metre B. Horsepower C. Watt metre D. Newton second
15	One unit of horsepower is equivalent	A. 716 W B. 746 W C. 736 W

		D. 756W
16	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
17	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
18	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
19	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
20	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>