

Work, Energy and Power

Sr	Questions	Answers Choice
1	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
2	A weight lifter of power 1960 watt lifts a load of mass 'M' from the ground to a height of 2 m in 3 second 'M' is.	A. 200 kg B. 100 kg C. 400 kg D. 300 kg
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 Joule can also be written as.	A. kgms^{-2} B. kgms^{-1} C. $\text{kgms}^{-2} \text{S}^{-2}$ D. $\text{kgms}^{-2} \text{S}^{-3}$
5	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
6	The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
7	A box is taken to the second floor at a building by doing some work. This work converts to.	A. Kinetic energy B. Heat energy C. Potential energy D. Sound energy
8	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
9	A heavy and a lighter object have same momentum. The object with greater kinetic energy is.	A. Heavy B. Lighter C. Same kinetic energy D. Either a or b
10	The unit of work or energy joule is equal to.....	A. Newton metre B. Horsepower C. Watt metre D. Newton second
11	The energy possessed by a body by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
12	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
13	The type of energy derived from heated ground water is	A. Tidal energy B. Hydroelectric energy C. Nuclear energy D. Geothermal energy
14	Which of the following is not renewable energy source.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
15	A Partical engine cannot have an efficiency equal to.	A. 0 B. 1 C. 0.8 D. -

		D. 0.5
16	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
17	The SI unit of power	A. erg B. Newton C. Watt D. Joule
18	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
19	One unit of horsepower is equivalent	A. 716 W B. 746 W C. 736 W D. 756W
20	Work done is maximum when the angle between the force F and the displacemtn d is	A. 60° B. 30° C. 0° D. 90°