

Work, Energy and Power

Sr	Questions	Answers Choice
1	The unit of work or energy joule is equal to.....	A. Newton metre B. Horsepower C. Watt metre D. Newton second
2	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
3	Which one is renewabel source of	A. Coal B. Uranium C. Sunlight D. Natural gas
4	Which of the following is not renewable eergy soruce.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
5	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
6	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
7	A Partical enegine cannot have an efficiency equal to.	A. 0 B. 1 C. 0.8 D. 0.5
8	A Joule can also be written as.	A. kgms^{-2} B. kgms^{-1} C. $\text{kgms}^{-2}\text{S}^{-2}$ D. $\text{kgms}^{-2}\text{S}^{-3}$
9	The energy possessed by abody by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
10	The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
11	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
12	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
13	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
14	The SI unt of power	A. erg B. Newton C. Watt D. Joule
15	Work done is maximum when the angle between the force F and the displacemtn d is	A. 60 B. 30 C. 0 D. 90

		D. 90 ^o
16	A force is acting on body but causes no displacement. The work done on the body is	A. Negative B. Zero C. Positive D. Infinite
17	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
18	A 4 kg body is thrown vertically upward from the ground with a velocity of 5 ms ⁻¹ . If friction is neglected its kinetic energy just before hitting the ground is.	A. 25 J B. 100 J C. 50 J D. 75 J
19	A car, an elephant 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
20	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