

Work, Energy and Power

Sr	Questions	Answers Choice
1	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
2	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
3	One unit of horsepower is equivalent	A. 716 W B. 746 W C. 736 W D. 756W
4	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
5	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
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 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
8	Work done is maximum when the angle between the force F and the displacement d is	A. 60° B. 30° C. 0° D. 90°
9	The SI unit of power	A. erg B. Newton C. Watt D. Joule
10	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
11	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
12	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
13	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
14	Which of the following is not renewable energy source.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
15	The energy possessed by a body by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy

16	Which one is renewable source of	A. Coal B. Uranium C. Sunlight D. Natural gas
17	A Joule can also be written as.	A. kgms^{-2} B. kgms^{-1} C. $\text{kgms}^{-2}\text{S}^{-2}$ D. $\text{kgms}^{-2}\text{S}^{-3}$
18	The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
19	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
20	The power of a water pump is 2 kW. The amount 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