

Work, Energy and Power

Sr	Questions	Answers Choice
1	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
2	Which one is renewabel source of	A. Coal B. Uranium C. Sunlight D. Natural gas
3	The energy possessed by abody by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
4	The SI unt of power	A. erg B. Newton C. Watt D. Joule
5	The type of energy derived from heated groud water is	A. Tidal energy B. Hydroelectric energy C. Nuclear energy D. Geothermal energy
6	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
7	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
8	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
9	The unit of work or energy joule is equal to.....	A. Newton metre B. Horsepower C. Watt metre D. Newton second
10	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
11	Work done is maximum when the angle between the force F and the displacemtn d is	A. 60^o B. 30^o C. 0^o D. 90^o
12	The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
13	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
14	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
15	A Joule can also be written as.	A. kgms⁻² B. kgms⁻¹ C. kgms⁻²S⁻² D. kgms⁻¹S⁻²

D. $\frac{2}{3}$

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	Which of the following is not renewable energy source.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
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	A ball is thrown downward with an initial velocity, its.	A. E_k increases and E_p decreases B. E_k decreases and E_p increases C. Both E_k and E_p increases D. Both E_k and E_p decreases