

Work, Energy and Power

Sr	Questions	Answers Choice
1	Which of the following is not renewable energy source.	A. Fossil fuels B. Hydroelectric energy C. Wind energy D. Solar energy
2	A Joule can also be written as.	A. kgms^{-2} B. kgms^{-1} C. $\text{kgms}^{-2}\text{S}^{-2}$ D. $\text{kgms}^{-2}\text{S}^{-3}$
3	A Partical engine cannot have an efficiency equal to.	A. 0 B. 1 C. 0.8 D. 0.5
4	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
5	The SI Unit of Power is	A. Watt B. Joule C. Newton D. Second
6	Work done is maximum when the angle between the force F and the displacement d is	A. 60° B. 30° C. 0° D. 90°
7	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
8	Which one is renewable source of	A. Coal B. Uranium C. Sunlight D. Natural gas
9	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
10	One unit of horsepower is equivalent	A. 716 W B. 746 W C. 736 W D. 756W
11	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
12	The energy possessed by a body by virtue of its position is.	A. Solar energy B. Chemical energy C. Potential energy D. Kinetic energy
13	The type of energy derived from heated ground water is	A. Tidal energy B. Hydroelectric energy C. Nuclear energy D. Geothermal energy
14	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
15	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

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- 16 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
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- 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
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- 18 The unit of work or energy joule is equal to.....
- A. Newton metre
 - B. Horsepower
 - C. Watt metre
 - D. Newton second
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- 19 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
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- 20 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
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