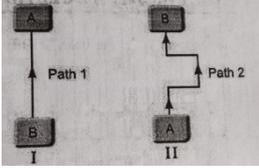




Work Energy Theory Test Paper

1. A coolie is walking on a railway platform with a load of 27 kg on his head. What is the amount of work done by him?
2. Can kinetic energy of a body be negative?

3.  an object of mass m is lifted from A to B to height h along the path 1

and 2. what would be the work done on the object in both the cases? Give reason.

4. What are the conditions for zero work done?
5. Prove that energy is conserved.
6. State the relation between SI unit and commercial unit of energy.
7. Give example a) solar energy is converted into chemical energy
b) sound energy is converted into electrical energy.
5. Define elastic potential energy.
6. what is the bigger unit of energy and power?
7. is power a scalar or vector quantity?
8. Mass of A is double of B. velocity of B is trice than A. find the ratio of their kinetic energy.
10. what are the different forms of energies when a freely falling objects reaches the ground.
11. How the energies are converted in an oscillating pendulum?
12. define 1 watt.
13. you are holding a pebble at a height of h_1 and then you are throwing it to the height of h_2 , if the mass is m then what is the potential and kinetic energy at the tip position?
14. what is one unit of energy?
15. obtain an expression of gravitational potential energy of an object.

16. distinguish between positive and negative work. When you lift an object up, two forces act on it. Identify those. Which one the two does

a) positive work

b) negative work

17. if Radha tried to push a heavy rock of 100 kg for 200 seconds and it does not move. Does it exploit law of conservation of energy? If not so then what is the conversion of energy?

18. what is the relation between kinetic energy and momentum?

19. prove that $P = vt$

20. what type of energy is possessed by a flying aeroplane with respect to earth?

