

- 10. Calculate the work done by a force of 30 N in 5. A car driver pulling a car so the car moves as 1 far as 1000 cm. what is the work done on the lifting a load of 2kg to a height of 10 m (g =10 ms-2) car? (a) W = 200 J(c) W = 100 J(b) W = 300 J(d) W = 500 J(a)2400 J 2500 J True False (b)2300 J 2600 J d - 11. Energy is non conserved. It can be transferred 6. An 1- kg object attached to a spring so it is from one object to another or change in 1 elongated 2 cm. If acceleration due to gravity form, but cannot be created or destroyed. is 10 m/s 2 . determine the spring constant. A )True done by force F on the block. )False Β (a)600 N/M 700 N/M C) - 12. Kinetic Energy is energy associated with the (b)500 N/M 1000 N/M (d) state of motion of an object. 7. A body falls freely from rest, from a height of 1 )True A 2 m. If acceleration due to gravity is 10 m/s 2 , determine the work done by the force of )False gravity. - 13. Energy is a property of the state of a system. (a)30J 50 J 40 J (b) 20 J )True А )False 8. What is The work done by force F on the 1 block. 14. Energy is a vector quantity. It does not have a 1 direction associated with it. ) True )False S = 4 m48 J 47 J а С 15. The energy approach to describing motion is 1 particularly useful when Newton's Laws are 49 J b) 46 J difficult or impossible to use True 9. A block is pushed by a force 200 N. The 1 block's displacement is 2 meter. What is the )False work done on the block a) 300 J 500 J (b)600 J d)400 J

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