

Class 10_ Work, Energy& Power_Subjective

Physics

Marks:15

***Required**

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1. A force is applied on a body of mass 20 kg moving with a velocity of 40 m/s. The body attains a velocity of 50 m/s in 2 s. Calculate the work done by the body. * 2 points

Your answer

2. A boy weighing 40 kgf climbs up a stair of 30 steps each 20 cm high in 4 minute and a girl weighing 30 kgf does the same in 3 minutes. Compare: (a) The work done by them. (b) The power developed by them 3 points

Your answer



3. Calculate the height through which a body of mass 0.5 kg should be lifted if the energy spent for doing so is 1.0 joule. (Take $g = 10 \text{ m s}^{-2}$)

2 points

Your answer

2. A boy runs with a speed of 7 m/s and has a K E 2450 J. Calculate the mass of the boy. *

2 points

Your answer

5. Explain briefly why the work done by a fielder when he takes a catch in a cricket match is negative. *

2 points

Your answer

6. Calculate the change in the Kinetic energy of a moving body if its velocity is reduced to 1/3 rd of the initial velocity. *

2 points

Your answer

7. A ball is placed on a compressed spring. When the spring is released, the ball flies away. (i) What form of energy does the compressed spring possess? (ii) Why does the ball fly away? *

2 points

Your answer

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