

Physics

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(Chapter 6) (Work Energy and Power) (Exercises)

(Class 11)

The acceleration produced by the frictional force:

$$a' = \frac{1.96}{2} = -0.98 \text{ m/s}^2$$

Total acceleration of the body:

$$a = a' + a'' \\ = 3.5 + (-0.98) = 2.52 \text{ m/s}^2$$

The distance travelled by the body is given by the equation of motion:

$$s = ut + \frac{1}{2}at^2$$

$$= 0 + \frac{1}{2} \times 2.52 \times (10)^2 = 126 \text{ m}$$

(a) Work done by the applied force, $W_a = F \times s = 7 \times 126 = 882 \text{ J}$

(b) Work done by the frictional force, $W_f = F \times s = -1.96 \times 126 = -247 \text{ J}$

(c) Net force = $7 + (-1.96) = 5.04 \text{ N}$

Work done by the net force, $W_{net} = 5.04 \times 126 = 635 \text{ J}$

(d) From the first equation of motion, final velocity can be calculated as:

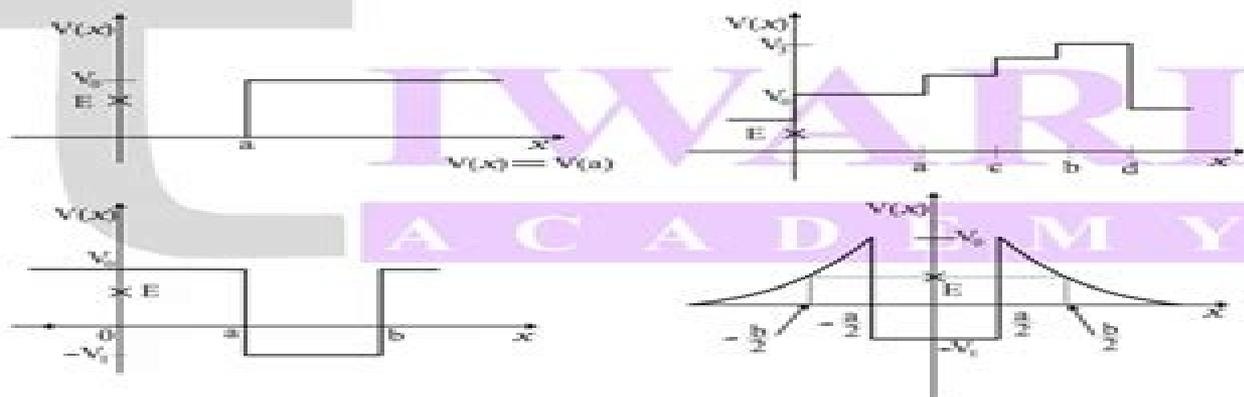
$$v = u + at \\ = 0 + 2.52 \times 10 = 25.2 \text{ m/s}$$

$$\text{Change in kinetic energy} = \frac{1}{2}mv^2 - \frac{1}{2}mu^2$$

$$= \frac{1}{2} \times 2(v^2 - u^2) = (25.2)^2 - 0^2 = 635 \text{ J}$$

Question 6.3:

Given in Fig. 6.11 are examples of some potential energy functions in one dimension. The total energy of the particle is indicated by a cross on the ordinate axis. In each case, specify the regions, if any, in which the particle cannot be found for the given energy. Also, indicate the minimum total energy the particle must have in each case. Think of simple physical contexts for which these potential energy shapes are relevant.



Chapter 6 Physics Answers

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