

## CHAPTER 11

## POWER, WORK AND ENERGY

1. Explain the relationship between power and energy and the relationship of power to work.
2. If an effort is done for a certain time, what is the power involved?
3. Illustrate a few examples of the concept of power in a mechanical system and how it is related to the concept of mechanical energy.
4. Discuss the concept of power in the case of a simple machine and its mechanical advantage.

## EXERCISES AND PROBLEMS

Study these exercises and problems and solve them. They are designed to help you understand the relationship



Figure 11.1 Illustration of work done by a man.

1. In Figure 11.1 (a), if the force exerted by the man is  $10^3$  N, find the work done along the horizontal distance and another angle between  $0^\circ$  and  $90^\circ$  of the wheelbarrow. Use  $\cos 0^\circ = 1$  and  $\cos 90^\circ = 0$ .
2. In Figure 11.1 (b), if the man lifts an object of a certain weight through a vertical height of 2 m, find the work done.
3. The change in potential energy is equal to the work done on the object.  
 $\Delta PE = W = F \times d = m \times g \times h$
4. The work done in lifting an object through a height is equal to the change in potential energy.

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