

EXERCISE 2(A)

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Question: 1

Define work. When is work said to be done by a force?

Solutions:

When the force applied on a body makes the body move, then the work is said to be done. It is a scalar quantity.

Question: 2

How is the work done by a force measured when

- (i) force is in direction of displacement,
- (ii) force is at an angle to the direction of displacement?

Solutions:

(i) Work done when force is in direction of displacement,

$$W = F \times S$$

(ii) Work done when force is at an angle to the direction of displacement,

$$W = F S \cos \theta$$

Question: 3

A force F acts on a body and displaces it by a distance S in a direction at an angle θ with the direction of force.

- (a) Write the expression for the work done by the force.
- (b) What should be the angle between force and displacement so that the work done is
- (i) zero,
- (ii) maximum?

Solutions:

(a) Work done when force is at an angle θ to the direction of displacement,

$$W = F S \cos \theta$$

(b) (i) The angle between force and displacement should be 90° as $\cos 90^{\circ} = 0$ for zero work done.

$$W = F S \cos 90^{\circ}$$

$$=FS\times 0$$

(ii) The angle between force and displacement should be 0° as cos 0° = 1 for maximum work done.

Then,
$$W = FS \cos 0^{\circ}$$

= FS

Question: 4

A body is acted upon by a force. State two conditions when the work done is zero.

Electricity Power And Energy Answers Physics Classroom

Karin Nielsen-Saines

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