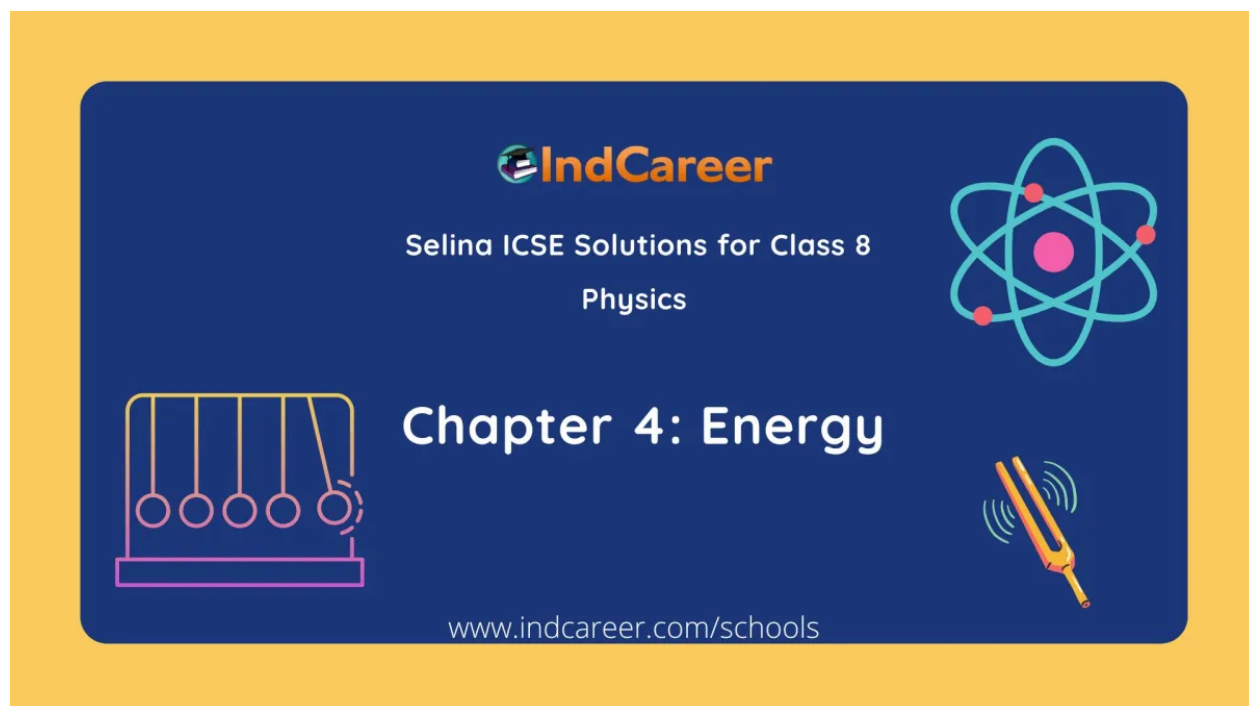


Selina Class 8 ICSE Solutions Physics :

Chapter 4- Energy



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Selina Class 8 ICSE Solutions Physics :

Chapter 4- Energy

Class 8: Physics Chapter 4 solutions. Complete Class 8 Physics Chapter 4 Notes.

Selina Class 8 ICSE Solutions Physics : Chapter 4- Energy

Selina 8th Physics Chapter 4, Class 8 Physics Chapter 4 solutions

A. Objective Questions

1. Write true or false for each statement

(a) A coolie does no work against the force of gravity while carrying luggage on a road

Answer: True.

(b) The energy stored in the water of a dam is the kinetic energy.

Answer: False.

(c) The energy of a flying kite is kinetic energy.

Answer: True.

(d) Work done by a boy depends on the time in which he does work.

Answer: False.

(e) Power spent by a body depends on the time for which it does work.

Answer: True.

Question 2.

Fill in the blanks:

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- (a) Work is said to be done by a force only when **the body moves**.
- (b) Work done = Force $\times$ **distance moved in direction of force**.
- (c) The energy of a body is its capacity to do **work**.
- (d) The S.I. unit of energy is the **joule**.
- (e) The potential energy is due to its **state rest of position** and kinetic energy of the body is due to its **state of motion**.
- (f) Gravitational potential energy $U = \text{mass} \times \text{force of gravity on unit mass} \times \text{height}$.
- (g) Kinetic energy $= \frac{1}{2} \times \text{mass} \times (\text{speed})^2$
- (h) Power $P = \text{work done} / \text{time taken}$.
- (i) The S. I. unit of power is the **watt**
- (j) I.H.P. = **746 W**

Question 3.

Match the following:

Column A

- (a) A stone at a height
- (b) A moving ball
- (c) Energy
- (d) Power
- (e) watt

Column B

- (i) power
- (ii) joule
- (iii) work done in 1 s
- (iv) potential energy
- (v) kinetic energy

Solution:

Column A

- (a) A stone at a height
- (b) A moving ball

Column B

- (iv) potential energy
- (v) kinetic energy

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- | | |
|------------|------------------------|
| (c) Energy | (ii) joule |
| (d) Power | (iii) work done in 1 s |
| (e) watt | (i) power |

Question 4.

Select the correct alternative

(a) The S.I. unit of work is

1. second
2. metre
3. joule
4. newton

Solution: The correct answer is 3. joule

(b) No work is done by a force if the body

1. moves in direction of the force
2. does not move
3. moves in the opposite direction
4. none of these

Solution: The correct answer 2. does not move

(c) Two coolies A and B do some work in time 1 minute and 2 minutes respectively. The power spent is

1. same by both coolies
2. is more by coolie A than by B
3. is less by coolie A than by B
4. nothing can be said.

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Solution: The correct answer 2. is more by coolie A than by B

(d) The expression of power P is

1. $P=mgh$
2. $P=P=1/2$
3. $P=F \times d$
4. $P=F \times d/t$

Solution: The correct answer is 4. $P=F \times d/t$

(e) 1 H.P is equal to

1. 1 W
2. 1 J
3. 746 J
4. 746 W

Solution: The correct answer is 4. 746 W

(f) When a boy doubles his speed, his kinetic energy becomes

1. half
2. double
3. four times
4. no change

Solution: The correct answer 3. four times

(g) A boy lifts luggage from height 2 m to 4 m. The potential energy will become

1. half
2. double
3. one-third

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4. one-fourth

Solution: The correct answer 2. double



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Class 8 Physics

- Chapter 1- Matter
- Chapter 2- Physical Quantities and Measurement
- Chapter 3- Force and Pressure
- Chapter 4- Energy
- Chapter 5- Light Energy
- Chapter 6- Heat Transfer
- Chapter 7- Sound
- Chapter 8- Electricity

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