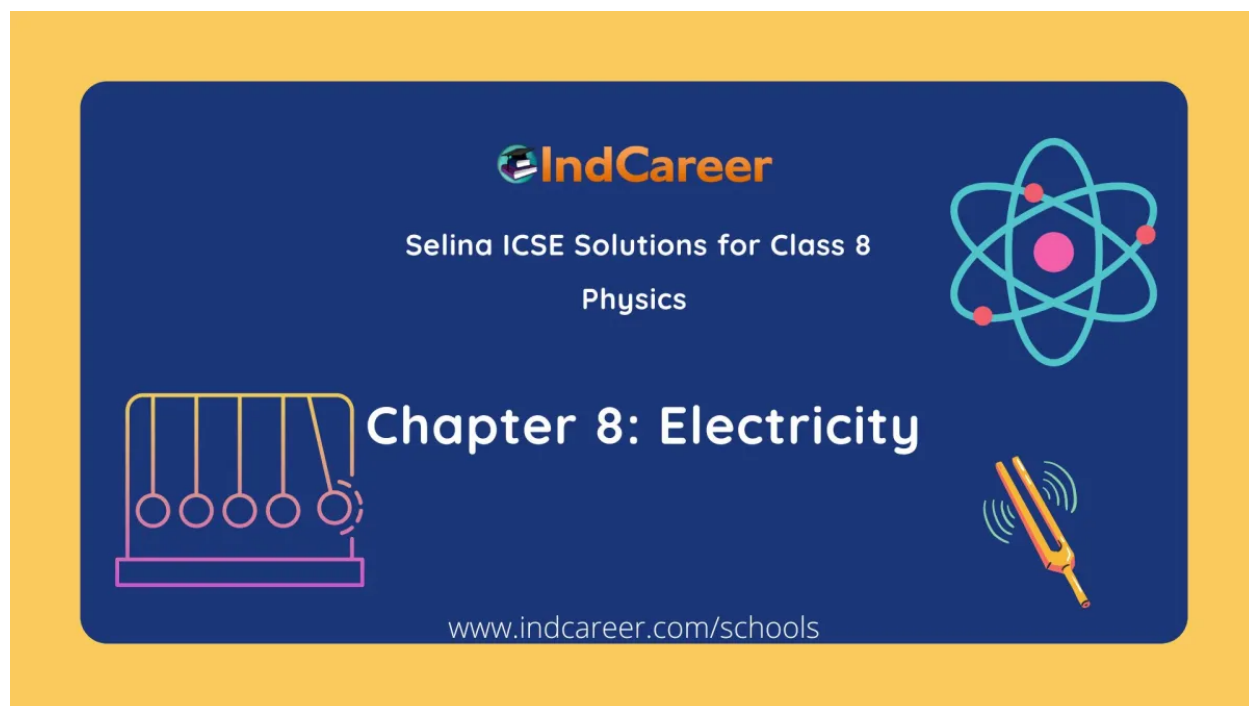


Selina Class 8 ICSE Solutions Physics :

Chapter 8- Electricity



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Selina Class 8 ICSE Solutions Physics :

Chapter 8- Electricity

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

Selina Class 8 ICSE Solutions Physics : Chapter 8- Electricity

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

A. Objective Questions

1. Write true or false for each statement:

(a) A fuse wire has a high melting point.

Solution: False.

(b) The flow of protons constitutes the electric current.

Solution: False.

(c) Silver is an insulator of electricity.

Solution: False.

(d) S.L. unit and commercial unit of electrical energy are the same.

Solution: False.

(e) Overloading of electric current in circuits can lead to short-circuiting.

Solution: True.

(f) Our body can pass electricity through it.

Solution: True.

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(g) All metals are insulators of electricity.

Solution: False.

(h) The earth wire protects us from an electric shock.

Solution: True.

(i) A switch should not be touched with wet hands.

Solution: True.

(j) All electrical appliances in a household circuit work at the same voltage.

Solution: True.

(k) In a cable, the green wire is the live wire.

Solution: False.

(l) A fuse is connected to the live wire.

Solution: True.

(m) A switch is connected to the neutral wire.

Solution: False.

Question 2

Fill in the blanks

(a) The unit in which we pay the cost of electricity is **kWh**.

(b) The electrical energy consumed in a house is measured by **kWh meter**.

(c) In a household electrical circuit, the appliances are connected in **parallel** with the mains.

(d) A switch is connected to the **live** wire.

(e) The red colour insulated wire in a cable is the **live** wire.

(f) One kilowatt-hour is equal to **3.6×10^6** joule.

(g) A fuse wire should have a low **melting point**.

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Question 3**Match the following****Column A**

- (a) Electric power
- (b) kWh
- (c) Electric current
- (d) Electric energy
- (e) watt
- (f) Potential difference

Column B

- (i) volt
- (ii) joule
- (iii) volt $\times$ ampere
- (iv) watt
- (v) ampere
- (vi) electrical energy

Solution:**Column A**

- (a) Electric power
- (b) kWh
- (c) Electric current
- (d) Electric energy
- (e) watt
- (f) Potential difference

Column B

- (iv) watt
- (vi) electrical energy
- (v) ampere
- (ii) joule
- (iii) volt $\times$ ampere
- (i) volt

Question 4**Select the correct alternative**

(a) All wires used in electric circuits should be covered with

1. colouring material
2. conducting material
3. an insulating material

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4. none of the above

Answer: The correct answer is 3. an insulating material

(b) Electric work done per unit time is

1. electrical energy

2. electric current

3. electric voltage

4. electrical power

Answer: The correct answer is 4. electrical power

(c) One kilowatt is equal to

1. 100 watt

2. 1000 watt

3. 10 watt

4. none of these

Answer: The correct answer is 2. 1000 watt

(d) Fuse wire is an alloy of

1. tin-lead

2. copper-lead

3. tin-copper

4. lead-silver

Answer: The correct answer is 1. tin-lead

(e) A fuse wire should have

1. a low melting point

2. high melting point

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3. very high melting point

4. none of the above

Answer: The correct answer is 1. a low melting point

(f) When the switch of an electric appliance is put off, it disconnects

1. the live wire

2. the neutral wire

3. the earth wire

4. the live and the neutral wire

Answer: The correct answer is 1. the live wire

(g) The purpose of an electric meter in a house is

1. to give the cost of electricity directly

2. to give the consumption of electrical energy

3. to safeguard the circuit from short-circuiting

4. to put on or off the mains.

Answer: The correct answer is 2. to give the consumption of electrical energy

(h) If out of the two lighted bulbs in a room, one bulb suddenly fuses, then

1. another bulb will glow more

2. another bulb will glow more

3. another bulb will also fuse

4. another bulb will remain lighted unaffected.

Answer: The correct answer is 4. another bulb will remain lighted unaffected.



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- 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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