Chapter 8: Electricity

Worksheet 1

1. Write T for true and F for false statement.

- (i) Object can be charged when charges are static and not in motion.
- (ii) The rate of flow of electric charge in an electric circuit is called electric current.
- (iii) 1 kilowatt is equal to 1000 watts.
- (iv) The SI unit of potential difference is volt.
- (v) Electric power is equal to product of electrical energy consumed and time.

2. Fill in the blanks.

- (i) The SI unit of electric current is _____.
- (ii) 1 ______ is also called 1 unit of electricity.
- (iii) ______ is the sure test of electrification.
- (iv) Like charges ______ each other.
- (v) When two bodies are charged by rubbing, ______ and _____ charges develop on them.

3. Define the following.

- (i) Electrostatics
- (ii) Potential difference
- (iii) Electric power
- (iv) Fuse
- (v) Switch

4. Answer these questions.

- (i) What is meant by resistance?
- (ii) What is the SI unit of electrical energy?
- (iii) What is called an alternative arrangement for fuse?
- (iv) What does electric meter measure?
- (v) If the power rating of an CFL is 22 W when operated at 220 V, find the maximum value of safe current flowing through it.

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Worksheet 2

1. Write T for true and F for false statement.

- (i) Live wire is maintained at 0 V.
- (ii) Positive charge flows from lower potential to higher potential.
- (iii) Aluminium is a good conductor of electricity.
- (iv) Live wire is also known as phase wire.
- (v) Electric bulb is an example resistor.

2. Fill in the blanks.

- (i) An uncharged conductor can be charged by _____.
- (ii) A switch is always connected along with _____ wire.
- (iii) Higher the current rating of the circuit, ______ the fuse wire is.
- (iv) The ______ wire provides the return path of electric current from our house to mains supply.
- (v) A safety device used in an electric circuit that avoids the risk of a heavy shock to the user is called ______.

В

3. Match the columns.

	Column A		Column
(i)	Live wire	(a)	Green
(ii)	Neutral wire	(b)	ohm
(iii)	Earth wire	(c)	watt
(iv)	SI unit of electric power	(d)	Red
(v)	SI unit of resistance	(e)	Black

4. Answer these questions.

- (i) How is fuse wire made up of?
- (ii) Which is also known as kilowatt-hour meter?
- (iii) Calculate the value of 1 W h in joule.
- (iv) What is power rating of an electrical appliance?
- (v) What happens when glass rod is rubbed with silk fibre?