

## Chapter 7: Electricity and Magnetism

### Worksheet 1

#### 1. Tick the correct answer.

- (i) The property of attracting iron pieces by a magnet is called  
(a) electricity      (b) electrostatics      (c) magnetism      (d) light
- (ii) Which one of the following is incorrect?  
(a) Magnetic poles exist in pairs only.  
(b) Like magnetic poles repel one another.  
(c) Unlike magnetic poles attract one another.  
(d) The magnetic force of a magnet is minimum at its poles.
- (iii) Which of the following is secondary cell?  
(a) Daniel cell      (b) dry cell  
(c) cell used in mobiles      (d) Leclanche cell
- (iv) What is used to measure the voltage in the circuit?  
(a) ammeter      (b) galvanometer      (c) voltmeter      (d) none of these
- (v) The connecting wires in an electric circuit are covered with  
(a) an insulating material      (b) a conducting material  
(c) a colouring material      (d) silk cloth

#### 2. Give one word for the following.

- (i) A combination of two or more cells  
(ii) A simple source of continuous flow of electricity  
(iii) An electric device used to put a circuit on or off  
(iv) Material which easily allows the flow of electricity through it  
(v) This cell consists of a carbon rod inserted into a black-coloured powder.

#### 3. Fill in the blanks.

- (i) Material which does not allow the flow of electricity through it is called \_\_\_\_\_.
- (ii) The electric cell is also known as an \_\_\_\_\_ cell.
- (iii) A \_\_\_\_\_ cell is that which once used, cannot be reused.

- (iv) Whenever mains supply is off due to power failure, \_\_\_\_\_ can be used to supply electricity.
- (v) A \_\_\_\_\_ is a closed path along which an electric current flows.

**4. Answer the following questions.**

- (i) Define electric current.
- (ii) Write two examples of good conductors.
- (iii) What is meant by secondary cell?
- (iv) What is an inverter?
- (v) Why are copper used as connecting wires in all electric circuits?

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## Worksheet 2

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

- (i) An electromagnet is a coil with a soft iron core.
- (ii) The hammer is made of steel and is attached to armature.
- (iii) Electric wires are covered with nonconducting material.
- (iv) Rubber is a good conductor of electricity.
- (v) We draw electricity from mains supply in our home.

### 2. Encircle the odd one out.

- (i) Iron, plastic, rubber and wood
- (ii) Nickel, tin, copper and wool
- (iii) Ampere, galvanometer, ammeter and voltmeter
- (iv) Dry cell, manganese dioxide, carbon and hydrogen
- (v) Battery, negative terminal, positive terminal and magnet

### 3. Define the following.

- (i) Battery
- (ii) Electric conductor
- (iii) Electric insulator
- (iv) Electromagnet
- (v) Electric current

### 4. Answer the following questions.

- (i) State law of magnetism.
- (ii) Give two uses of an electromagnet.
- (iii) Name the constituents of black-coloured powder used in dry cell.
- (iv) Draw open and closed switches.
- (v) What does an electric circuit consist of?