

**WORK SHEET**  
**SECOND TERM**  
**SUBJECT- SCIENCE**  
**LESSON- Chemical Effects of Electric Current**  
**CLASS- VIII**

**I Fill in the blanks:-**

1. A Compound formed by ions is called \_\_\_\_\_ .
2. The electrode connected to the negative terminal is \_\_\_\_\_ .
3. Distilled water does not conduct \_\_\_\_\_.
4. Electroplating is an important use of \_\_\_\_\_ .

**II Choose the correct option:-**

1. A liquid metal that conducts electricity :-  
(a) Sodium (b) Mercury (c) Lead (d) Gold
2. An atom or a radical that becomes charged is called :-  
(a) Radical (b) ion (c) electrode (e) none
3. Metals are extracted from their ores by the process of :-  
(a) electroplating (b) electrolysis (c) both (d) none

**III Name the following:-**

1. An atom that loses an electron
2. Cell used in electrolysis
3. A liquid or a moist paste that has ions in it

**IV Define the following:-**

1. Electrolysis.
2. Electroplating.
3. Electrolyte.
4. Electrode.

**V Draw the following diagrams and label it.**

1. Electroplating steel spoons with silver.
2. Flow of ions in an electrolyte.
3. Electrodes.

**VI Give reasons for the following:-**

1. An acid or ionic salt added to water during the electrolysis of water.
2. Water taps are coated with nickel or chromium.

**VII Complete the following reactions:-**

1.  $\text{Cu}^{2+} + \underline{\hspace{1cm}}$   $\longrightarrow$   $\text{Cu}$
2.  $\text{Na}^+ + \text{Cl}^-$   $\longrightarrow$   $\underline{\hspace{1cm}}$

**VIII Answer the following in not more than 20 words:-**

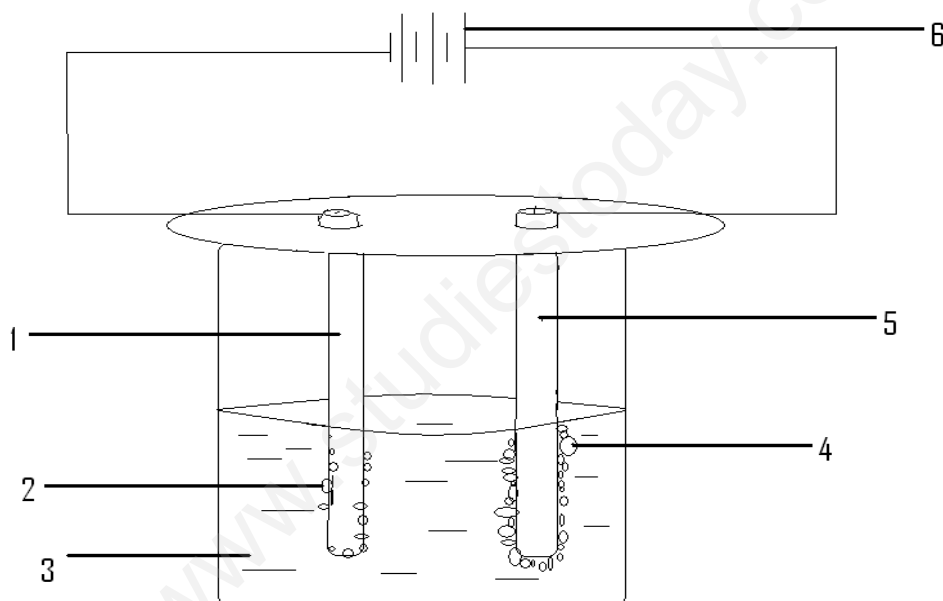
1. Define anode and cathode.
2. Mercury is a liquid that conducts electricity. What constitutes a current through it ?

**IX Answer the following in not more than 40 words :-**

1. What happens when a voltage is applied across electrodes placed in an electrolyte ?

**X Label the diagram and answer the following questions**

1. Give a suitable heading to the diagram given below.
2. Name the electrode which collects hydrogen .
3. Name the electrolyte.
4. Write a chemical equation for the process given below.



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