



## SCIENCE

### CH:14- CHEMICAL EFFECTS OF ELECTRIC CURRENT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: VIII Sec: \_\_\_\_

#### I Multiple Choice Questions:

1. An electric current can produce  
(a) heating effect only. (b) chemical effect only. (c) magnetic effect only. (d) chemical, heating, and magnetic effects.
2. Which of the following metals is used in electroplating to make objects appear shining?  
(a) iron (b) copper (c) chromium (d) aluminium
3. Boojho's uncle has set up an electroplating factory near his village. He should dispose off the waste of the factory  
(a) in the nearby river. (b) in the nearby pond. (c) in the nearby cornfield.  
(d) according to the disposal guidelines of the local authority.
4. When electric current is passed through a conducting solution, there is a change of colour of the solution. This indicates  
(a) the chemical effect of current. (b) the heating effect of current. (c) the magnetic effect of current. (d) the lightning effect of current.

#### II Fill in the blanks

- (a) The object to be electroplated is taken as \_\_\_\_\_ electrode.
- (b) One of the most common applications of chemical effect of electric current is \_\_\_\_\_.
- (c) Small amount of a mineral salt present naturally in water makes it a \_\_\_\_\_ of electricity.
- (d) Electroplating of \_\_\_\_\_ is done on objects like water taps and cycle bell to give them a shiny appearance.

#### III Answer the following:

5. Paheli wants to deposit silver on an iron spoon. She took silver nitrate ( $\text{AgNO}_3$ ) solution in a beaker and setup a simple circuit for electroplating. Which terminal of the battery should the spoon be connected to? What material should the other electrode be made of?
6. Why is tin electroplated on iron to make cans use for storing food?
7. An electric current is passed through a conducting solution. List any three possible observations.
8. You are provided with a magnetic compass, an empty match box, a battery of two cells and connecting wires. Using these objects how will you make a tester for testing an electric circuit? Draw the necessary circuit diagram and explain.