

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

Chemical Effects of Electric Current

Q1. When the free ends of a tester are dipped into a solution, the magnetic needle shows deflection. Can you explain the reason?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q2. Which metal is usually electroplated on car parts such as bumpers and bicycle handlebars made of steel?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q3. Which metal is electroplated on iron for making cans and why?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q4. Why is the current in the circuit weak?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q5. Why do brand new cycles have shiny handlebars and wheel rims what will happen if these are scratched?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Chemical Effects of Electric Current

Q1. When the free ends of a tester are dipped into a solution, the magnetic needle shows deflection. Can you explain the reason?

Ans. The deflection in magnetic needle shows that the circuit is complete and the solution conducts electricity.

Q2. Which metal is usually electroplated on car parts such as bumpers and bicycle handlebars made of steel?

Ans. Chromium is usually electroplated on car parts such as bumpers and bicycle handlebars made of steel.

Q3. Which metal is electroplated on iron for making cans and why?

Ans. Tin is electroplated on iron for making cans because tin is less reactive than iron. Thus, food does not come into contact with iron and is protected from getting spoilt.

Q4. Why is the current in the circuit weak?

Ans. Though a material may conduct electricity, it may not conduct it as easily as a metal. As a result, the circuit of the tester may be complete and yet the current through it may be too weak to make the bulb glow.

Q5. Why do brand new cycles have shiny handlebars and wheel rims what will happen if these are scratched?

Ans. A brand new bicycle has shiny handlebar and wheel rims. However, if these are accidentally scratched, the shiny coating comes off revealing a not so shiny surface beneath.