

Octahedral classes, kharadi
2nd floor, yashwant plaza, near bank of India,

Class 08 - Science
Chemical effect of current

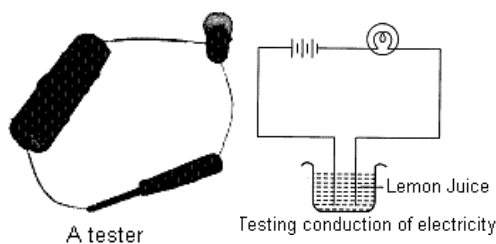
Maximum Marks: 40

Time Allowed: 1 hour and 30 minutes

Section A

1. Define electroplating. 1
2. Name the gas deposited on negative electrode. 1
3. What is magnetic effect of electric current? 1
4. Is air a conductor or an insulator? 1
5. How can we make distilled water a good conductor of electricity? 1
6. What are electrodes? 1
7. Name some materials that are good conductors of electricity. 1
8. Give one example of the application of electroplating. 1
9. Name the process that shows the chemical effect of electricity. 1
10. What are conductors of electricity? 1
11. What is distilled water? 1
12. Name the gases which release when current is passed through water. 1
13. How can we check magnetic effects of current? 1
14. Does distilled water conduct electricity? 1
15. Prepare a list of objects around you that are electroplated. 2
16. What is electroplating? 2
17. Does pure water conduct electricity? If not, what can we do to make it conducting? 2
18. Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? Explain. 2
19. In previous class you have used a tester as shown in figure given below to test whether electric current passed through a particular material or not? When this tester is used for liquids sometimes even though the liquid allows the electric current to pass and the circuit is complete, bulb does not glow. What

can be the reason?



20. During electroplating the copper deposited on the plate connected to negative terminal comes from the solution. How this loss of copper from solution compensated? 2
21. What effect does the current produce when it flows through a conducting solution? 2
22. A tester is used to check the conduction of electricity through two liquids, labelled A and B. It is found that the bulb of the tester glows brightly for liquid A while it glows very dimly for liquid B, you would conclude that 2
- (i) liquid A is a better conductor than liquid B.
 - (ii) liquid B is a better conductor than liquid A.
 - (iii) both liquids are equally conducting.
 - (iv) conducting properties of liquid cannot be compared in this manner.
23. In case of a fire, before the firemen use the water hoses, they shut off the main electrical supply for the area. Explain why they do this. 2
24. Except chromium plating on several other metals what other metals are used for plating. Give few examples. 2
25. A child staying in a coastal region tests the drinking water and also the seawater with his tester. He finds that the compass needle deflects more in the case of seawater. Can you explain the reason? 2
26. Why chromium is used for electroplating? Why the objects which have chromium plating are not made of chromium itself? 2
27. Make a list of materials around you which conduct electricity and a list of those that do not. 2