

GSc. Class - VIII

Chemical Effects of Electric Current

ASSIGNMENT No. 9

FA-3

- Q1. What do you understand by chemical effect of current?
- Q2. Differentiate between conductors and insulators with examples.
- Q3. Why distilled water is used as an insulator? How can it be made a conductor?
- Q4. What are electrodes? Name two elements that can be used to make electrodes.
- Q5. List the various chemical effects produced when electric current is passed through a conducting solution.
- Q6. What happens when electric current passes through water by keeping two electrodes immersed in it?
- Q7. What is electroplating? Give its three uses.
- Q8. What is the disadvantage of electroplating?
- Q9. Describe an experiment to show the process of electroplating. Also explain in detail why we find a coating of copper on the negative electrode.
- Q10. You are given a carbon rod, a copper plate and copper sulphate solution. Explain the arrangement you will do to get a coating of copper on the carbon rod.
- Q11. Give reasons for the following:
1. Chromium is used for electroplating.
 2. Iron cans used for storing food items are electroplated with tin.
 3. Bridges and automobiles are either painted or coated with zinc to prevent rusting. Why aren't they electroplated?

4. We should never handle electrical appliances with wet hands.

Q12. Fill in the blanks:

1. Three effects of electric current are _____, _____ and _____.
2. When current is passed through a conducting solution it causes _____ reactions.
3. Full form of LED is _____. The longer lead in LED is always connected to the _____ terminal of the battery.
4. Liquids that conduct electricity are solutions of acids, bases and _____.
5. When electric current is passed through acidulated water, the gases produced are _____ and _____.
6. The object to be electroplated is connected to the _____ terminal of the battery in the circuit.

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