



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI -

110034

**CLASS VIII
ASSIGNMENT**

Chemical effects of electric current

- Q1. Do liquids also conduct electricity? Name two liquids which conduct electricity & two liquids which do not conduct electricity.
- Q2. Name a device which glows even when a weak electric current passes through it.
- Q3. Write full form of LED.
- Q4. Which effect of electric current is utilized for detecting the flow of current through a solution:
- a) When a torch bulb is used?
 - b) When a compass is used?
- Q5. Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? Explain.
- Q6. When electric current is passed through acidified water, then hydrogen & oxygen are formed. What type of effect of current is illustrated by this statement?
- Q7. State some of the characteristics of chemical changes brought about by the chemical effect of electric current.
- Q8. Name the metal which is usually electroplated on car parts such as bumpers & bicycle handlebars made of steel.
- Q9. An iron key is to be electroplated with copper. Draw a labeled sketch of the experimental set up used for this purpose.
- Q10. Name two metals which are usually electroplated on cheaper metals for making jewellery (or ornaments).
- Q11. You are required to do electroplating of copper on an iron object. Name the positive electrode (anode) & the electrolyte you will use for this purpose.
- Q12. Write a short note on electroplating.
- Q13. Why does compass needle show more deflection when you test sea water, compared to ordinary water?

Q15. Name a liquid which when poured in the beaker may cause magnetic needle to deflect. Name the possibilities if a bulb in tester does not glow (it is for sure that liquid is conducting).

Q16. What happens to the needle of a magnetic compass kept nearby when electric current is switched on in a wire? Why does this happen?

Q17. Iron is used in bridges & automobile to provide strength. Which metal is electroplated on iron to protect it from corrosion?

Q18. We should never handle electrical appliances with wet hands or while standing on a wet floor. Why?

Q19. When the free ends of a conductivity tester (made by using a battery connected to a wire wound around a compass) are dipped into the following solution, then in which solution or solutions the compass needle shows deflection. Solutions are: Lemon juice, Vinegar, Tap water, Vegetable oil, milk, Honey.

Q20. Why does an electric bulb glow when a current passes through it?

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