**D. A. V Public School**

**Assignment**

**Class: VIII**

 **(Chemical Effect of Electric Current)**

1. Fill in the blanks.
(a) Most liquids that conduct electricity are solutions of \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_.
(b) The passage of an electric current through a solution causes \_\_\_\_\_\_\_\_\_ effects.
(c) If you pass current through copper sulphate solution, copper gets deposited on the plate

 connected to the \_\_\_\_\_\_\_\_\_\_ terminal of the battery.
(d) The process of depositing a layer of any desired metal on another material by means of

 electricity is called \_\_\_\_\_\_\_\_\_.

1. Is distilled water a conductor or an insulator?

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1. Apart from chemical effect, which other effect electric current produce?

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1. Do liquids also conduct electricity? Name two liquids which conduct electricity & two liquids which do not conduct electricity

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

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1. After the electroplating of a spoon with silver, it was found that the anode has become thin. Why?

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1. Which properties of chromium make it useful for electroplating on iron? Why we cannot make the whole article with chromium?

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1. During electrolysis of water, why does hydrogen collect on cathode and oxygen collect on anode?

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1. 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.

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1. An iron key is to be electroplated with copper. Draw a labeled sketch of the experimental set up used for this purpose.

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1. 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

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