

CHEMICAL EFFECTS OF CURRENT

QUESTION BANK

1	What are good conductors? Answer: The substances that conduct electricity through them are called good conductors.
2	What are insulators or poor conductors? Answer: The substances that do not conduct electricity through them are poor conductors or insulators.
3	Give four examples of conductors. Answer: Copper, iron, aluminium and brass.
4	Give four examples of insulators. Answer: Air, wood, rubber and plastic.
5	What do we get on electrolysis of acidified water? Answer: Hydrogen and oxygen gas.
6	Is air a bad or good conductor? Answer: A bad conductor.
7	What is the full form of LED? Answer: Light Emitting Diode.
8	Why do most liquids conduct electricity? Answer: Due to the presence of ions in them, most liquids conduct electricity.
9	Do lemon juice or vinegar conduct electricity? Answer: Yes, they conduct electricity.
10	Is water from taps, handpumps, wells and ponds a good conductor? Answer: Yes, water from these sources is a good conductor.
11	What makes distilled water a good conductor? Answer: Salts when mixed with distilled water make it a good conductor.
12	Why is a layer of zinc coated over iron? Answer: To prevent iron from corrosion and rust.
13	Why is tin electroplated on iron to make cans used for storing food? Answer: Tin is less reactive than iron. Tin coating prevents food from coming in contact with iron and thus prevents it from getting spoiled or corroded.
14	What is electroplating?

	<p>Answer: Deposition of thin layer of a metal over other metal by electrolysis is called electroplating.</p>
15	<p>Define good conductors and poor conductors or insulators.</p> <p>Answer: The materials that conduct electricity through them are called good conductors whereas those that do not conduct electricity are called poor conductors or insulators. For example, copper, brass, aluminium, iron, etc., are conductors whereas rubber, plastic, wood, air, etc., are insulators.</p>
16	<p>How is the conductivity of liquids tested?</p> <p>Answer: The free ends of the tester is dipped in the liquid. If the bulb glows, the liquid is said to be a conductor. If not, it is an insulator.</p>
17	<p>Normal water conducts electricity while the pure or distilled water does not. Explain why?</p> <p>Answer: Normal water that we get from sources such as taps, handpumps, wells, ponds, etc., is not pure. It may contain several salts dissolved in it naturally. This water is thus good conductor of electricity. The pure or distilled water is free of salts and is a poor conductor.</p>
18	<p>What is electroplating? What are its uses?</p> <p>Answer: The process of depositing a layer of any desired metal on another material by means of electricity is called electroplating. Electroplating is a very useful process. This is used to make objects appear shiny and resistant to scratches. It prevents corrosion.</p>
19	<p>Why is chromium used for electroplating? Why the objects have chromium plating are not made of chromium itself?</p> <p>Answer: Chromium has a shiny look. It does not get corroded and it resists scratches. Chromium is however expensive and it may not be economical to make the whole object out of it. So the object is made from a cheaper metal and only a coating of chromium is done over it.</p>
20	<p>What are the advantages and disadvantages of electroplating?</p> <p>Answer: Electroplating is a very useful process. It is widely used in industry for coating metal objects with a thin layer of different metal. The advantages and disadvantages of electroplating are:</p> <p>Advantages:</p> <ul style="list-style-type: none"> • It protects the metals from being corroded. • It prevents the rusting of metals. • It makes cheap and dull metals shiny and attractive. • It can make more reactive metals like iron less reactive. • Chromium coating on metals give lustre to objects. <p>Disadvantages</p> <ul style="list-style-type: none"> • Pollutants from electroplating industries are very harmful. Some chemicals are very

	<p>lethal for both human and animals.</p> <ul style="list-style-type: none">• It is an expensive process.
21	<p>Why do you think electroplated jewellery are in demand?</p> <p>Answer:</p> <p>Electroplated jewellery are in demand because firstly, they are as shiny and attractive as real jewellery. They are light-weighted and cost effective. Secondly, one feels free to wear it because of the growing problem of snatching and theft.</p>

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