



SCIENCE - MCQ'S

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Chemical Effects of Electric Current - 55 Important Practice Questions

1. Which of the following is a good conductor?
 - (a) Brick
 - (b) Steel**
 - (c) Plastic
 - (d) Cotton
2. Which of the following does not conduct electricity?
 - (a) Sugar solution**
 - (b) Vinegar solution
 - (c) Lemon juice solution
 - (d) Caustic soda solution
3. Flow of electron is called
 - (a) electrolyte
 - (b) electroplating
 - (c) electrodes
 - (d) electric current**
4. Electroplating is based on
 - (a) heating effect of electricity
 - (b) chemical effect of electricity**
 - (c) physical effect of electricity
 - (d) magnetic effect of electricity
5. Which is not a non-electrolyte?
 - (a) Ethyl alcohol
 - (b) Sodium chloride**
 - (c) Urea
 - (d) Sodium solution
6. Which of the following is a bad conductor of electricity?
 - (a) Distilled water**
 - (b) Silver nitrate
 - (c) Sulphuric acid
 - (d) Copper sulphate

7. When electrodes are immersed in water and electricity passed, the bubbles formed on the negative terminal is actually _____ gas.
- (a) **Hydrogen**
 - (b) Carbon dioxide
 - (c) Oxygen
 - (d) Nitrogen
8. An electric lamp glows due to
- (a) **heating effect**
 - (b) magnetic effect
 - (c) chemical effect
 - (d) physical effect
9. The process of depositing a layer of any desired metal on another material by means of electricity is called _____.
- (a) Electric plating
 - (b) **Electroplating**
 - (c) Electric depositing
 - (d) None of the above
10. An electrolyte is
- (a) a metal
 - (b) **a liquid that conducts current**
 - (c) a non-metal
 - (d) none of these
11. Some liquids are good conductors of electricity and some are poor conductors. Which one is a poor conductor?
- (a) Acidic solution
 - (b) Alkaline solution
 - (c) Common Salt solution
 - (d) **Distilled water**
12. When electrodes are immersed in water and electricity passed, the bubbles formed on the positive terminal is actually _____ gas.
- (a) Hydrogen
 - (b) Carbon dioxide
 - (c) **Oxygen**
 - (d) Nitrogen
13. The process in which a chemical change takes place in a substance, when electric current is passed through it is called:
- (a) **electrolysis**
 - (b) electrodes
 - (c) thermal conduction
 - (d) none of these
14. Which of the following liquid is poor conductor:
- (a) **salty water**
 - (b) orange juice

- (c) lemon juice
(d) none of these
15. If a switch has some sparking, we will switch it off with the help of:
(a) an iron nail
(b) cotton cloth
(c) wooden stick
(d) any of (b) and (c)
16. Why do we add little dilute sulphuric acid to copper sulphate solution during electroplating?
(a) To increase acidity
(b) To increase conductivity
(c) So that the colour becomes more prominent
(d) To burn copper sulphate
17. During electroplating in CuSO_4 , (Copper sulphate) solution will get deposit on electrode at negative terminal.
(a) Copper from positive electrode
(b) Sulphur
(c) Copper from CuSO_4 , solution
(d) None of these
18. Electroplating is a method of:
(a) making plates
(b) coating a metal on another metal using electric current
(c) making plates which use electricity
(d) making a metal with another metal
19. Tin cans, used for storing food, are made by electroplating tin onto iron. Why?
(a) Tin gives a shiny appearance
(b) To make the vessel cheap
(c) Tin is less reactive than iron.
(d) To make the vessel lighter
20. Adding lime water to tap water makes it:
(a) an electrolyte
(b) electrolysis
(c) no change occur
(d) none of these
21. Which of the appliances at your home does not run on electric current?
(a) Television
(b) Mixer grinder
(c) Air conditioner
(d) Gas burner
22. Electroplating prevents
(a) corrosion
(b) passing of current
(c) dissociation
(d) shining

23. Waste from an electroplating factory must be disposed off
- (a) in the nearby river
 - (b) in the nearby pond
 - (c) in the nearby cornfield
 - (d) according to the disposal guidelines of Waste Management Bodies**
24. Which of the following is not used for electroplating metal articles?
- (a) Nickel
 - (b) Silver
 - (c) Chromium
 - (d) Sodium**
25. A coating of _____ is deposited on iron to protect it from corrosion and formation of rust
- (a) copper
 - (b) aluminium
 - (c) Zinc**
 - (d) silver
26. The negative charged ions are called:
- (a) cations**
 - (b) anions
 - (c) ions
 - (d) none of these
27. Kerosene is:
- (a) electrolyte**
 - (b) non-electrolyte
 - (c) electrode
 - (d) none of these
28. Pure or distilled water is a
- (a) poor conductor**
 - (b) good conductor
 - (c) both (a) and (b)
 - (d) none of these
29. Magnetic compass connected In a circuit is used to check:
- (a) magnetism in electric current
 - (b) slow current
 - (c) small current**
 - (d) none of these
30. LED glows:
- (a) when a strong electric current flows through it
 - (b) whenever a weak electric current flows through it**
 - (c) when no electric current flows through it
 - (d) none of these
31. Tap water is a good conductor of electricity while distilled water is not because
- (a) Tap water contain salts
 - (b) Distilled water do not contain salt**

- (c) Only (a) is correct
(d) Both (a) & (b) is correct
32. A battery is used to:
(a) convert chemical current into electric
(b) maintain a potential difference current
(c) measure the current
(d) measure the temperature
33. An electric current can produce
(a) heating effect
(b) chemical effect
(c) magnetic effect
(d) all of these
34. Iron objects can be protected by electroplating them with
(a) chromium
(b) nickel
(c) zinc
(d) all of these
35. When electric current is passed through the copper sulphate solution, copper sulphate dissociates into:
(a) copper and sulphur
(b) copper and oxygen
(c) copper and sulphate
(d) none of these
36. is deposited on Iron used in bridges and automobiles to protect it from corrosion and formation of rust.
(a) Chromium
(b) Zinc
(c) lin
(d) None of these
37. Chromium plating is done on many objects such as car parts, bath taps, kitchen gas stove etc. Why?
(a) It does not corrode but prevents scratches
(b) It looks beautiful
(c) It costs less
(d) Articles can be sold at higher price
38. Which one is the conductor
(a) brass
(b) plastic
(c) mica
(d) leather
39. Car parts, bath taps, kitchen gas burners, bicycle handlebars are electroplated with:
(a) chromium
(b) zinc

- (c) tin
(d) none of these
40. The passage of an electric current through a solution causes
(a) Heating effect
(b) Lighting effect
(c) **Chemical effect**
(d) All of these
41. In a dry cell, which of the following acts as the positive terminal?
(a) Carbon rod
(b) Manganese dioxide
(c) Manganese dioxide and powdered carbon
(d) **A metal cap on the carbon rod**
42. Electroplating is based on:
(a) magnetic effect of electricity
(b) **chemical effect of electricity**
(c) heating effect of electricity
(d) physical effect of electricity
43. A device which prevents or allow the current to flow through it
(a) Conductor
(b) Motor
(c) Terminal
(d) **Switch**
44. What is current?
(a) The flow of matter
(b) The flow of electrons
(c) The flow of protons
(d) **The flow of charge**
45. Electric current is measured by a device
(a) Odometer
(b) Voltmeter
(c) **Ammeter**
(d) Galvanometer
46. In battery two or more cells are connected in
(a) **Series**
(b) Random
(c) Positive and positive terminals
(d) Parallel
47. Which of the following liquids is a bad conductor of electricity?
(a) Lemon juice
(b) Vinegar
(c) Sea water
(d) **Distilled water**

48. Which acid is present in lemon juice that acts as an electrolyte?
- (a) Sulphuric acid
 - (b) Nitric acid
 - (c) Hydrochloric acid
 - (d) Citric acid**
49. Which categories of substance are generally good conductors?
- (a) Insulator
 - (b) Non-metals
 - (c) Metals**
 - (d) Reflector
50. An electric lamp glows due to
- (a) Chemical effect
 - (b) Magnetic effect
 - (c) Heating effect**
 - (d) None
51. Which metal is electroplated on iron for making "cans" for storing food and drinks?
- (a) Chromium metal
 - (b) Silver metal
 - (c) Tin metal**
 - (d) Copper metal
52. What is the common name for manganese-dioxide-alkaline-zinc cell?
- (a) Moz cell
 - (b) Long life cell
 - (c) Manganese-dioxide
 - (d) Alkaline cell**
53. Which of the following is an insulator?
- (a) Wood**
 - (b) Iron
 - (c) Graphite
 - (d) Silver
54. In electric circuit, current flows due to
- (a) Difference in temperature
 - (b) Same potential difference
 - (c) Difference in potential difference**
 - (d) Difference in current
55. The bulb glows when the electric current passes through it due to
- (a) Lighting effect of electric current
 - (b) Magnetic effect of electric current
 - (c) Heating effect of electric current**
 - (d) Chemical effect of electric current

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