



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

ELECTRICAL CONDUCTIVITY OF LIQUIDS

Exercise

- 1. Give examples for poor solid conductors and liquid conductors.**



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2. Give examples for poor solid conductors and liquid conductors.



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3. Give two examples for electrolyte.



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4. Draw the diagram of Electrolytic cell and explain.



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5. Which energy is cause for glowing of bulb in electrolytic cell?



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6. What do you add to distilled water for making it to conduct electricity?



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7. If the key is to be coated with aluminium instead of copper, what changes do we need to make in the experiment of coating on iron key with copper?



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8. Is plastic coated by the process of electroplating?why?



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9. Which of the following is used in electroplating?

A. Electrotyping

B. Electroplating

C. Electroprinting

D. Galvanizing

Answer:



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10. Pure water is a

A. Electric conductor

B. Semiconductor

C. Insulator

D. Resistor

Answer:



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11. The material which does not allow electric current to pass through it is known as.

- A. Electric conductor
- B. Insulator
- C. Electric resistance
- D. Semi conductor

Answer:



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12. Electroplating is possible through.

- A. Electrolysis
- B. Chemical process
- C. Dissolving
- D. Filtration

Answer:



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13. One of the following is not an electrolyte

A. Sulphuric acid

B. Lemon juice

C. Tamarind juice

D. Detergent solution

Answer:



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14. When we pass current through a copper sulphate solution having copper plate and iron key connected to a battery and tap key in series by closing tap key. What is deposited on Iron key ?



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15. Conduct an experiment for testing the electric conductivity of electrolytes.



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16. Conduct an experiment for testing the electric conductivity of electrolytes.



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17. Collect the information from various sources on the applications of electroplating in daily life and prepare a report on that.



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18. Why do we use LED in the tester instead of a bulb ?



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19. Why do some materials allow electric current to pass through them and why some do not?



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20. If a battery is packed in a box and if only two wires from two terminals are given out, how can we decide the positive and negative terminal of the battery ?



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21. What is electrolysis ? Give Faraday's first law of electrolysis.



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22. Why are you advised not to touch electric appliances with wet hands?



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23. Why do we use LED in the tester instead of a bulb ?



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24. Why do we use LEDs as indicators in electrical appliances ?



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25. What is meant by good conductors of electricity?



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26. What is meant by bad conductors of electricity?



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27. Why does not distilled water conduct electricity ?



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28. Why is water used at our homes a good conductor of electricity?



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29. What is electrolytic cell?



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30. When we pass current through a copper sulphate solution having copper plate and

iron key connected to a battery and tap key in series by closing tap key. What is deposited on Iron key ?



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31. If the key is to be coated with aluminium instead of copper, what changes do we need to make in the experiment of coating on iron key with copper?



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32. A child staying in a coastal region tests the drinking water and also the sea water with his tester. He finds that compass needle deflects more in the case of sea water. Can you explain the reason?



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33. Is it safe for electrician to carry out electrical repairs outdoor during heavy down pour?



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34. A tester is used to check conduction of electricity through two liquids labelled A and B: It is found that the bulb of the tester glows brightly for liquid A while it glows very dimly for liquid B. What is your conclusion ?



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35. 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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36. What is the main threat to environment from electroplating factories?



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37. Why should we have to deposit nickel or chromium on iron?



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38. What is the name given to wires attached to LED ? How are these wires connected to a battery ?



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39. What are the requirements for fine coating in electroplating process ?



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40. Name three liquids which when tested in the manner shown in figure may cause the magnetic needle to deflect.



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41. If bulb does not glow with the passage of current, what are possible reasons? Example



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42. Why the fire brigade start the work by putting off the electric mains?



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43. We get some items made from iron wire in which iron wire is coated with plastic. Plastic coated by the process of electroplating ? Why can plastic not be coated on a metal by the process of electroplating?



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44. In terms of band theory , what is the difference between a conductor and an insulator ?



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45. Is it safe for electrician to carry out electrical repairs outdoor during heavy down pour?



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46. What is LED ? How it is useful as tester ?



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47. 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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48. tap water conduct electricity where as distilled water does not why?



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49. What are the drawbacks of electroplating?



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50. tap water conduct electricity where as distilled water does not why?



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51. A child staying in a coastal region tests the drinking water and also the sea water with his tester. He finds that compass needle deflects more in the case of sea water. Can you explain the reason?



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52. Prepare a table of various metals and non-metals used in our daily life and their usage.



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53. What are the uses of electrolysis in daily life?



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54. What do you add to distilled water for making it to conduct electricity?



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55. How do you appreciate the efforts of Luigi Galvani and Alessandro Volta in discovering a cell and making a stored electric energy available to human beings?



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56. Test the conductivity of liquids given below and fill the table.(table)



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57. Why is chromium used for electroplating ?
Why are the objects which are chromium plated not made of chromium itself?



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58. Write some chemical equation occurring in our daily life.



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59. If bulb does not glow with the passage of current, what are possible reasons? Example



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60. Name the process of coating a metal on another metal. Draw a rat diagram related to this process. Label the parts.



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61. Draw a diagram shows electroplating process. Write any one of the requirements for the fine coating.



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62. _____ is called blue vitrol.

A. Copper sulphate

B. Zinc sulphate

C. Iron sulphate

D. Magnesium sulphate

Answer:



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63. _____ cell does not have any liquid.

A. Volta

B. Dichromate

C. Lech lanche

D. Dry

Answer:



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64. _____ is added to increase conductivity of distilled water.

A. Sugar

B. Oil

C. Salt

D. Kerosene

Answer:



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65. _____ is useful to join or break the circuit.

A. Cell

B. switch

C. Battery

D. Resistor

Answer:



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66. Drinking water is good conductor of electricity due to.

A. Dissolved salts

B. Bacteria

C. Virus

D. Dust particles

Answer:



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67. _____ spot is seen on the potato around Wire connected to the positive terminal of battery.

A. White

B. Yellow

C. Greenish blue

D. Orange

Answer:



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68. Pure water is a

A. Electric conductor

B. Semi conductor

C. Insulator

D. Resistor

Answer:



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69. The material which does not allow electric current to pass through it is known as.

A. Electric conductor

B. Insulator

C. Electric resistance

D. Semi conductor

Answer:



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70. Electroplating is possible through.

A. Electrolysis

B. Chemical process

C. Dissolving

D. Filtration

Answer:



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71. One of the following is not an electrolyte

A. Sulphate acid

B. Lemon juice

C. Tamarind juice

D. Detergent solution

Answer:



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72. The material which does not allow electric current to pass through it is known as.

A. Conductors

B. Semi conductors

C. Insulators

D. Resistors

Answer:



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73. The diodes which glow when current pass through them are called _____

A. LED

B. HED

C. LRD

D. LAD

Answer:



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74. _____ proposed that all living beings contained electricity.

A. Volta

B. Ampere

C. Ohm

D. Galvani

Answer:



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75. The first cell was prepared by

A. Ampere

B. Volta

C. Ohm

D. Galvani

Answer:



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76. The metallic rods or plates used in electrolysis are called _____

A. Electrodes

B. Electrolytes

C. Electric charges

D. None of these

Answer:



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77. The substance used for electrolysis is called

A. Electrode

B. Electrolytes

C. Electric substance

D. None of these

Answer:



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78. The colour of copper sulphate solution-

A. Green

B. Blue

C. Red

D. Yellow

Answer:



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79. Which among these is good conductor of electricity?

A. Plastic

B. Rubber

C. Diamond

D. Salt solution

Answer:



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80. Which among these is bad conductor of electricity?

A. Gold

B. Silver

C. Copper

D. Kerosene

Answer:



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81. _____ useful as tester.

A. LED and magnetic compass

B. LED and magnetic compass

C. Magnetic compass and fuse

D. Magnet and fuse

Answer:



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82. _____ converts chemical energy into electrical energy.

A. Motor

B. Generation

C. Electrolytes cell

D. None of these

Answer:



83. Magnetic compass acts as tester when it is connected in a circuit due to _____ effect of current.

A. Heating

B. Magnetic

C. Chemical

D. None of these

Answer:



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84. The passage of electric current through solution causes _____ effect.

A. Mechanical

B. Chemical

C. Magnetic

D. Physical

Answer:



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85. The process of depositing a layer of zinc on iron is called:

A. Electrotyping

B. Electrolysis

C. Electroplating

D. None of these

Answer:



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86. The process of dissociation of solution of compound into constitute ions with passage of current is called _____

A. Electrolysis

B. Pyrolysis

C. Photolysis

D. Ketolysis

Answer:



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87. The Process In which an inferior metal is coated with superior metal by using electrolysis process is called _____

- A. Electrotyping
- B. Electroplating
- C. Electroprinting
- D. dissociation

Answer:



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88. If you pass current through copper sulphate solution, copper deposited on the plate connected to the _____ terminal of the battery.

A. Negative

B. Positive

C. Both

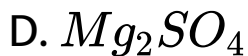
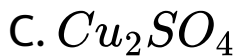
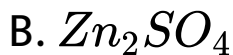
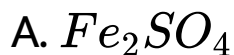
D. None of these

Answer:



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89. The formula of copper sulphate is



Answer:



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90. Which of the following is also used in ornamentation and decoration ?

- A. Electrotyping
- B. Electroplating
- C. Electroprinting
- D. Galvanizing

Answer:



91. The word 'voltage' is derived from_____

A. Watt

B. Volta

C. Volt

D. Ampere

Answer:



92. Why does not distilled water conduct electricity ?

A. Good

B. Partial

C. Poor

D. None of these

Answer:



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93. _____ is useful in identifying positive terminal of battery.

A. Tomato

B. Potato

C. Carrot

D. Beetroot

Answer:



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94. Name of the experiment given here is

A. Electrotyping

B. Electroplating

C. Electric current

D. None

Answer:



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95. _____ converts chemical energy into electrical energy.

A. Mechanical

B. Chemical

C. Magnetic

D. Muscular

Answer:



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