



PHYSICS

BOOKS - MBD

CHEMICAL EFFECTS OF ELECTRIC CURRENT

Example

1. Fill in the blanks

Most liquids that conduct electricity are

solutions of ,and



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2. Fill in the blanks

The passage of an electric current through a solution causes Effects.



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3. Fill in the blanks

If you pass current through copper sulphate

solution copper gets deposited on the plate connected to the terminal of the battery.



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4. Fill in the blanks

The process of depositing a layer of any desired metal on another material, by means of electricity is called..... .



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5. When the free ends of a taster are dipped in a solution, the magnetic compass needle shows deflection. Can you explain the reason?



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6. Name three liquids, which when tested in a manner shown in fig. may cause the magnetic needle to deflect.



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7. The bulb does not glow in the setup. List the possible reasons. Explain your answer.



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8. A tester is used to check the conduction of electricity through two liquids labelled A and B. It is found that the bulb of the tester glows very brightly for liquid A while it glows dimly for liquid B. You would conclude that.

A. liquid A is better conductor than liquid B

B. Liquid B is better conductor than liquid

A.

C. both liquids are equally conducting.

D. conducting properties of liquids cannot be compared, in this manner.

Answer:



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9. Does pure water conduct electricity? If not, what can we do to make it conducting?



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10. 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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11. A child staying in the coastal regions tests the drinking water and also the sea water with his tester. He finds that the compass needle deflects more in case of sea water. Can you explain the reasons?



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12. Is it safe for an electrician to carry out electrical repairs outdoors during heavy downpour? Explain.





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13. A child staying in the coasted regions tests the drinking water and also the sea water with his tester. He finds that the compass needle deflects more in case of sea water. Can you explain the reasons?



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14. Prepare a list of objects around you that are electroplated.



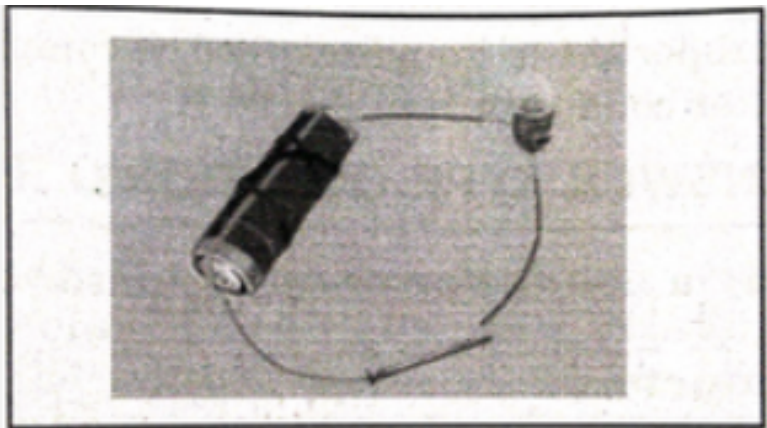
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15. The process that you see is used for purification of copper. A thin plate of pure copper and a thick rod of impure copper are used as electrodes. Copper from impure rod is sought to be transferred to the thin copper plate. Which electrode should be attached to positive terminal of the battery and why?



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16. In order to keep the flow of electricity continue in circuit, which of the following items should be used in place of iron nail in the given circuit.



A. (A) Graphite

B. (B) Plastic

C. (C) Wood

D. (D) Rubber

Answer:



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17. Does pure water conduct electricity? If not, what can we do to make it conducting?

A. Water will become good conductor of electricity.

B. Water will remain bad conductor of electricity

C. Water will neither be a good conductor nor a bad conductor of electricity

D. None of the above

Answer:



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18. Which out of the following is insulator of electricity?

A. Acid

B. Bases

C. Pure water

D. Solutions to salt

Answer:



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19. Which out of the following is not an insulator?

A. Rubber

B. Plastic

C. Wood

D. Copper

Answer:



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20. Fill in the blanks

The passage of an electric current through a solution causes Effects.

- A. magnetic effect
- B. heat effect
- C. chemical effect
- D. None of the above

Answer:



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21. Fill in the blanks

The passage of an electric current through a solution causes Effects.

- A. magnetic effect
- B. chemical effect
- C. heat effect
- D. None of the above

Answer:



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22. The availability of some amount of impurities make water:

- A. (A) conductor
- B. (B) insulator
- C. (C) pure
- D. (D) none of these

Answer:



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23. A tester is used to check the conduction of electricity through two liquids labelled A and B. It is found that the bulb of the tester glows very brightly for liquid A while it glows dimly for liquid B. You would conclude that.

A. liquid A is better conductor than liquid B

B. Liquid B is better conductor than liquid

A.

C. both liquids are equally conducting.

D. conducting properties of liquids cannot be compared, in this manner.

Answer:



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24. Is our body a conductor or an insulator.



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25. what are conductors?



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26. what are insulators?



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27. Do all liquids allow electric current to pass through them?



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28. What is LED?



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29. Name the phenomenon of breaking up of a chemical compound under the action of electric current.



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30. What do we get on electrolysis of acidulated water?



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31. Which effect of current is used in electroplating?



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32. When does a bulb glow ?



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33. How can small current be tested ?



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34. Name different effects of electric current.



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35. Is air an insulator?



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36. Fill in the blanks

Most liquids that conduct electricity are

solutions of ,and



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37. Can conductors be classified as insulators or vice versa under special conditions?



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38. Which commonly used liquids can conduct electricity?



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39. What are electrodes?



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40. By which phenomenon cheap articles are coated with gold or expensive metals?



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41. Is electroplating useful process?



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42. Is air an insulator?



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43. what is electrolysis?



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44. What is electroplating?



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45. Give a brief account of LED.



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46. Is water a good conductor when common salt is added to water?



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47. What is electroplating? Give its uses.



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48. How can a spoon be copper plated?



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