



PHYSICS

BOOKS - PSEB

CHEMICAL EFFECT OF ELECTRIC CURRENT

Exercise

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 causeseffects.



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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 the tester are dipped into a solution, the magnetic needle shows deflection. Can you explain the reason ?



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6. Name the three liquids which when tested in the manner shown in the given figure, may

cause the magnetic needle to deflect

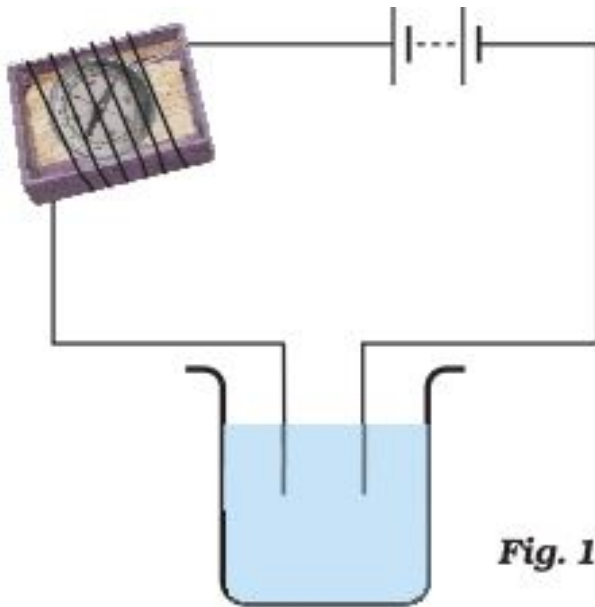


Fig. 14.9



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7. The bulb doesn't glow in the setup shown in the given figure. List the possible reasons

.Explain your answer.

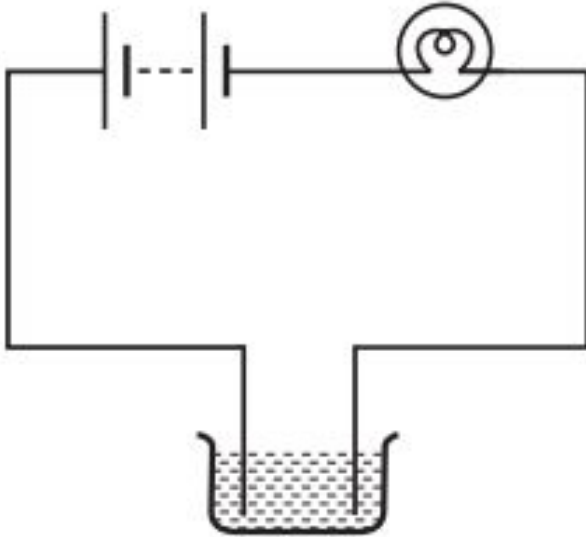


Fig. 14.10



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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

brightly for liquid A while it glows very dimly for liquid B. You would conclude that liquid A is a better conductor than liquid B. Liquid B is a better conductor than liquid A. both liquids are equally conducting. conducting properties of liquid cannot be compared in this manner.



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



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10. In case of a fire , before the fireman 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 a coastal region tests the drinking water and also the seawater with his tester. He finds that the compass needle deflects more in the case of sea water. Can you explain the reason ?



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



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13. Paheli had heard that rainwater is good as distilled water. So she collected some rainwater in a clean glass tumbler and tested

it using a tester. To her surprise, she found that the compass needle showed deflection .What could be the reason ?



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



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15. The process that you saw in activity 14.7 is used for purification of copper. A thin plate of pure copper and a thick rod of impure copper are used as electrodes. Copper and impure rod is sought to be transferred to the thin copper plate. Which electrode should be attached to the positive terminal of the battery and why ?



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