



TEST PAPER: PHYSICS

Time: 45 Minutes

Class: C.B.S.E. 8

Max. Marks: 30 Marks

Date: 3rd October 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

A. Fill in the blanks:

- i) Electroplating of _____ is done on objects like water taps and cycle bell to give them a shiny appearance.
- ii) The passage of electric current through a solution causes _____ effects
- iii) Materials which do not allow electric current to pass through them easily are called _____

B. Choose the correct one:

- i) When electric current is passed through copper sulphate solution, the copper deposits on the electrode connected to : a) Positive terminal of battery b) Negative terminal of battery c) any terminal can be chosen
- ii) Chemical effects of electric current is primarily used for which of the following : a) Electroplating b) Separating oxygen c) Separating hydrogen
- iii) An electric current can produce: a) heating effect only b) chemical effect only c) magnetic effect only d) chemical, heating and magnetic effects

C. Answer the following

- i) What effects does an electric current produce when flowing through a conducting solution?
- ii) When free ends of the tester are dipped into the solution, the magnetic needle shows deflection. Give reason

Question 2.

A. In each of the circuit below write whether the bulb will glow or not? Write yes or no giving appropriate reasons



B. Answer the following:

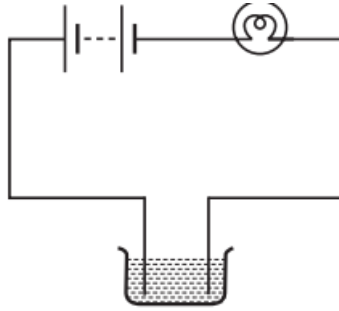
- i) Define electroplating
- ii) What is electrolysis?
- iii) How can distilled water be made good conductor of electricity?

C. Answer the following

- i) What is LED? Why it can be used in place of a bulb in the tester?
- ii) A tester is used to check the conduction of electricity through two liquids, labeled 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 (a) liquid A is a better conductor than liquid B. (b) liquid B is a better conductor than liquid A. (c) both liquids are equally conducting. (d) conducting properties of liquid cannot be compared in this manner.

Question 3.

A. The bulb does not glow in the setup shown in Fig. List the possible reasons. Explain your answer.



B. Give reasons:

- i) Iron cans are electroplated with tin
- ii) Iron used in bridges and construction are electroplated with zinc

C. Answer the following

- i) What is the disadvantage of electroplating done in the factories?
- ii) Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? Explain.