

Date: 21-01-2022

Class: 8th Genesis

Subject: Science

Test code: SEP17(21011319)

Chemistry

M. Marks: 20

1. Name two liquids which conduct electricity and two liquids which do not conduct electricity. 2
2. Acidified water is electrolysed by using carbon electrodes. What is produced at :
 - (a) Positive carbon electrode? 2
 - (b) Negative carbon electrode? 2
3. State by giving reason whether the following statements are true or false:
 - (a) Rainwater is a non – conductor of electricity. 2
 - (b) A piece of fresh potato does not conduct electricity at all. 2
4. (a) What is the advantage of using LED in testing the electrical conductivity of liquids?
 - (b) Which effect of electric current is utilized for detecting the flow of current through a solution. 3
5. (a) Why is it dangerous to touch a working electrical appliance with wet hands?
 - (b) Distilled water does not conduct electricity. What substances can be added to distilled water in small amounts to make it a good conductor of electricity? Why? 3
6. (a) Which effect of electric current is utilized when a thin layer of chromium metal is deposited on an iron tap? What is this process known as?
 - (b) For electroplating copper on an iron object, which terminal of the battery (positive or negative) is connected to the iron object? Also name the electrolyte you will use for this purpose. 3
7. (a) A strip of impure copper metal is given to you. Describe briefly how you will purify it by using the chemical effect of electric current. Draw a labelled diagram of the experimental set up used for this purpose.

(b) Name any two applications of the chemical effect of electric current.

(c) What is electrolysis? Explain why, in the electrolysis of water, 'acidified water' is used.

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