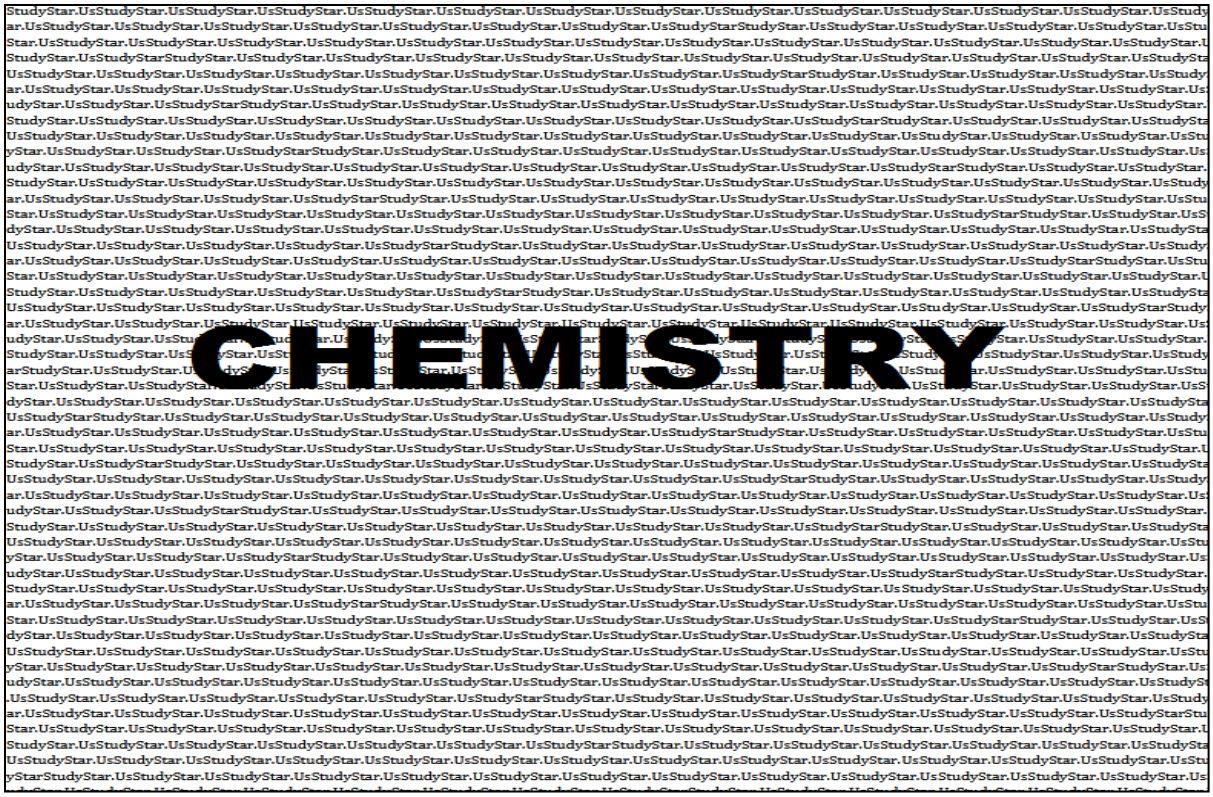


METALS

Total Marks: 25

Duration: 0 hours, 20 minutes

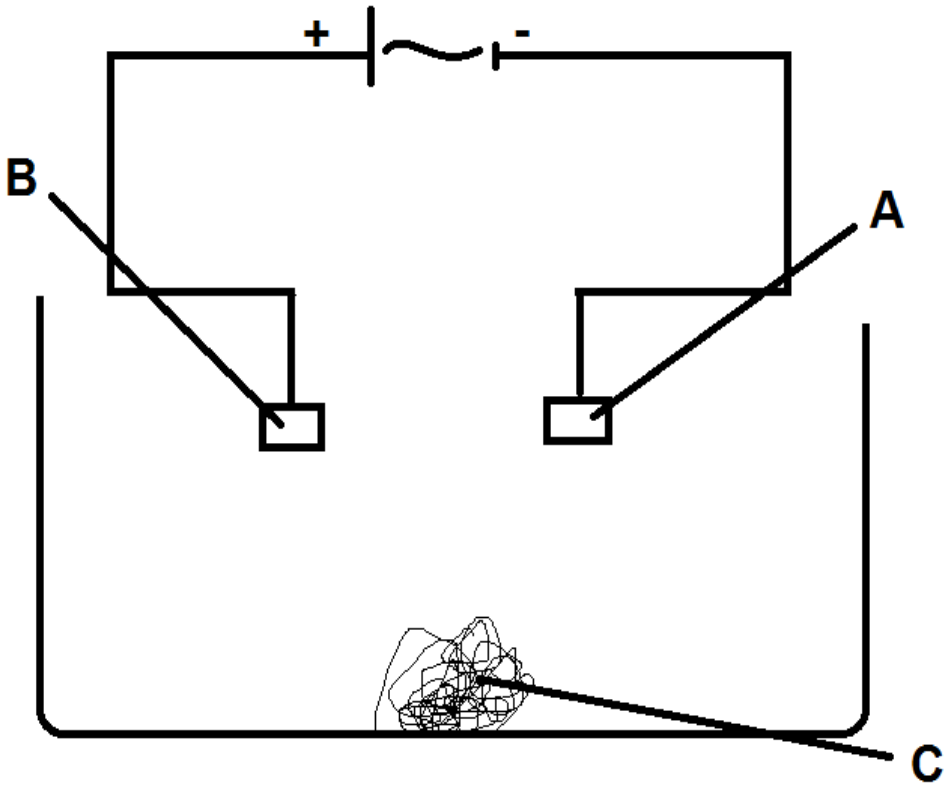
Instructions to test takers

1. Answer all the questions in this paper
2. All the answers for the questions in this paper will be found on **Study Star** (www.studystar.me)
3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A [10 marks]

1. Which of the following is a property of all metals?
    a. They are heavy
    b. They are solids
    c. They conduct electricity
2. Bronze is made up of
    a. Copper and tin
    b. Copper and zinc
    c. Copper and iron
3. During extraction of iron, the charge is fed in the blast furnace which of the following shows the charge?
    a. Cork, limestone and ore
    b. Ore and limestone
    c. Iron, cork and charge
4. State the function of cork in the extraction of iron.
    a. To form carbon dioxide
    b. To form carbon monoxide
    c. To form slug
5. State the function of carbon monoxide in the extraction of iron.
    a. To reduce iron
    b. To form slug
    c. To help in cooling
6. The method by which impurities sink and the bottom and the copper ore floats is
    a. Froth floatation
    b. Cu floatation
    c. float
7. The diagram below shows purification of copper



Which of the above is pure copper?

8. What is the function of carbon in the extraction of zinc?
    a. To form carbon dioxide
    b. To form carbon monoxide
    c. To reduce zinc
9. The aluminium ore is called
    a. Blend
    b. Alumina
    c. Bauxide
10. During galvanizing which of the following must always be present
    a. Aluminium
    b. Silver
    c. Zinc

Section B [5 marks]

11. _____ are positively charged elements that ionizes by losing electrons.
12. The addition of small quantities of metals to another metal is called
13. The most reactive metal in the reactivity series is _____
14. Name any metal that does not react with water
15. The main impurity in the extraction of iron is _____

Section C [10 marks]

16. State three properties of metals. [3]
17. State two reasons for alloying. [2]
18. State two properties of the blast furnace. [2]
19. State two uses of copper. [2]
20. What do you understand by the term alloy? [1]

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