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## **METALS**

**Total Marks: 25** 

**Duration: 0 hours, 20 minutes** 

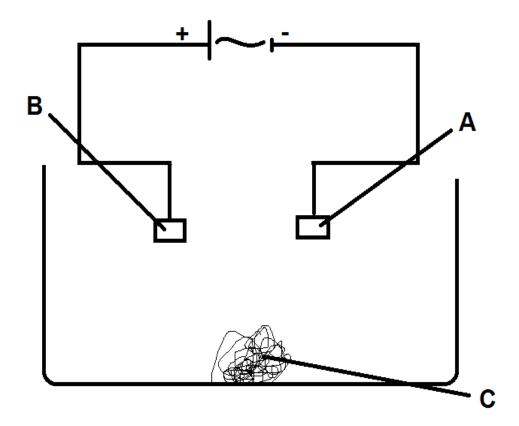
## Instructions to test takers

- 1. Answer all the questions in this paper
- All the answers for the questions in this paper will be found on Study Star (<u>www.studystar.me</u>)
- 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	J	
	electrons.		
	12. The addition of small quantities of metals to another metal is ca	alled	
	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		
S	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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