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الملف Test about Metallurgy

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**Choose the correct answer:**

- 1. Which of the metal is extracted by Hall-Heroult process?**  
a) Al    b) Ni    c) Cu    d) Zn
- 2. Wolframite ore is separated from tinstone by the process of**  
a) Smelting    b) Calcination    c) Roasting    d) Electromagnetic separation
- 3. Electrochemical process is used to extract**  
a) Iron    b) Lead    c) Sodium    d) silver
- 4. Which one of the following ores is best concentrated by froth – floatation method?**  
a) Magnetite    b) Haematite    c) Galena    d) Cassiterite
- 5. Considering Ellingham diagram, which of the following metals can be used to reduce alumina?**  
a) Fe    b) Cu    c) Mg    d) Zn
- 6. Which of the following is used for concentrating ore in metallurgy?**  
a) Leaching    b) Roasting    c) Froth floatation    d) Both (a) and (c)
- 7. The incorrect statement among the following is**  
a) Nickel is refined by Mond's process  
b) Titanium is refined by Van Arkel's process  
c) Zinc blende is concentrated by froth floatation  
d) In the metallurgy of gold, the metal is leached with dilute sodium chloride solution
- 8. In the extraction of aluminium from alumina by electrolysis, cryolite is added to**  
a) Lower the melting point of alumina  
b) Remove impurities from alumina  
c) Decrease the electrical conductivity  
d) Increase the rate of reduction
- 9. In the electrolytic refining of copper, which one of the following is used as anode?**  
a) Pure copper    b) Impure copper    c) Carbon rod    d) Platinum electrode
- 10. Roasting of sulphide ore gives the gas (A). (A) is a colourless gas. Aqueous solution of (A) is acidic. The gas (A) is**  
a)  $\text{CO}_2$     b)  $\text{SO}_3$     c)  $\text{SO}_2$     d)  $\text{H}_2\text{S}$

**key**

- 1. a) Al**
- 2. d) Electromagnetic separation**
- 3. c) Sodium**
- 4. c) Galena**
- 5. c) Mg**
- 6. d) Both (a) and (c)**
- 7. d) In the metallurgy of gold, the metal is leached with dilute sodium chloride solution**
- 8. a) Lower the melting point of alumina**
- 9. b) Impure copper**
- 10. c) SO<sub>2</sub>**