

Date Planned : __ / __ / __	Daily Tutorial Sheet-10	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

**Paragraph for Q. 116 to 118**

116. Match the Column :



Column-I (Statements)		Column-II (Corresponding metals)	
(A)	Hydrometallurgy applied in commercial extraction of metal	(p)	Ag
(B)	Carbon reduction applied in commercial extraction in metal	(q)	Zn
(C)	Aqueous salt solution is used in electrolytic Refining method	(r)	Sn
(D)	Metal present in anode mud of refining of crude copper	(s)	Au
		(t)	Cu

117. Match the Column :

Column-I		Column-II	
(A)	Poling	(p)	Titanium
(B)	Cupellation	(q)	Copper
(C)	Electro-refining	(r)	Silver
(D)	Van Arkel method	(s)	Tin

118. Match the Column :

Column-I (Metal)		Column-II (Process involved in commercial extraction from their ore)	
(A)	Pb	(p)	Bessemerisation
(B)	Cu	(q)	Roasting
(C)	Zn	(r)	Pyrometallurgy
(D)	Fe (Steel)	(s)	Self-reduction method

\*119. Which of the following reaction in the blast furnace is/are endothermic ?

- (A)  $\text{C(s)} + \text{O}_2\text{(g)} \rightleftharpoons \text{CO}_2\text{(g)}$       (B)  $\text{CO}_2\text{(g)} + \text{C(s)} \rightleftharpoons 2\text{CO(g)}$   
 (C)  $\text{CaCO}_3\text{(s)} \rightleftharpoons \text{CaO(s)} + \text{CO}_2\text{(g)}$       (D)  $\text{Fe}_2\text{O}_3\text{(s)} + 3\text{CO(g)} \rightleftharpoons 2\text{Fe(l)} + 3\text{CO}_2\text{(g)}$

\*120. Highly electropositive metals can not be extracted by carbon reduction process because these :

- (A) Metals combine with carbon to form carbides  
 (B) Metals do not react with carbon  
 (C) Metal oxides are not reduced by carbon  
 (D) Loss of metal is more by vaporization

- \*121. The function of adding cryolite in the electrolytic reduction of alumina by Hall-Heroult process is to :  
 (A) dissolve alumina (B) lower the melting point of alumina  
 (C) lower the fuel bill (D) increase the electrical conductivity of alumina
- \*122. Amphoteric nature of aluminium is employed in which of the following process for extraction of aluminium?  
 (A) Baeyer's process (B) Hall's process  
 (C) Serpek's process (D) Dow's process
- \*123. Metals which can be extracted by smelting process are :  
 (A) Pb (B) Fe (C) Zn (D) Al
- \*124. Which of the following metal(s) is/are commercially extracted by self reduction method from their corresponding ore ?  
 (A) Cu (B) Fe (C) Pb (D) Hg
- \*125. The advantage(s) of using carbon to reduce a number of oxides and other compounds are :  
 (A) Easy availability of coke  
 (B) Low cost of carbon  
 (C) Tendency of carbon to show catenation  
 (D) Presence of carbon lowers the melting point of the oxides