




Date Planned : __ / __ / __	Daily Tutorial Sheet-5	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

61. Iron obtained from blast furnace is when subjected to roasting with Fe_2O_3 gives :
 (A) wrought iron (B) cast iron (C) pig iron (D) steel
62. Blister Cu is about : 
 (A) 60 % Cu (B) 90 % Cu (C) 98 % Cu (D) 100 % Cu
63. Annealing of steel is the process of heating steel :
 (A) to a bright red hot and then cooling it slowly
 (B) to a bright red hot and then cooling it suddenly
 (C) to a temperature much below redness and cooling it slowly
 (D) None of the above
64. The chemical process in the production of steel from haematite ore involves :
 (A) reduction (B) oxidation
 (C) reduction followed by oxidation (D) oxidation followed by reduction
65. Consider the following statements :
 I. Wrought iron is malleable and ductile.
 II. Pig iron can be melted to produce cast iron of desired shapes.
 III. Wrought iron is obtained by heating pig iron with iron oxide in a furnace.
 Which of the statement(s) given above is/are correct ?
 (A) I only (B) I and II (C) II and III (D) III only
66. In the leaching of Ag_2S with NaCN , a stream of air is also passed. It is because of : 
 (A) Reversible nature of reaction between Ag_2S and NaCN
 (B) To oxidise Na_2S formed into $\text{Na}_2\text{S}_2\text{O}_4$ and sulphur
 (C) Both (A) and (B)
 (D) None of the above
67. Mg can be obtained :
 (A) by heating MgCl_2 (anhydrous) with Na in the atmosphere of coal gas
 (B) by electrolysis of fused carnallite
 (C) by both the methods
 (D) by none of the above methods
68. Softening of lead means :
 (A) melting pure lead at high temperature
 (B) removal of impurities, except silver, present in commercial lead
 (C) formation of lead alloy
 (D) formation of 100% pure lead

69. In the Bayer's process :
- (A) Al_2O_3 goes into solution as soluble $\text{Al}(\text{OH})_4^-$ while other basic oxides as TiO_2 and Fe_2O_3 remain insoluble.
- (B) Al_2O_3 changes to AlN which in turn decomposed by H_2O
- (C) Al_2O_3 changes to $\text{Al}_2(\text{CO}_3)_3$ which changes to AlCl_3
- (D) None of the above is correct
70. The extraction of which of the following metals involves bessemerisation ?
- (A) Fe (B) Ag (C) Al (D) Cu
71. Gold is extracted by hydrometallurgical process, based on its property : 
- (A) of being electropositive
- (B) of being less reactive
- (C) to form complexes which are water soluble
- (D) to form salts which are water soluble
72. Silver is extracted from solution of $\text{Na}[\text{Ag}(\text{CN})_2]$ by the use of :
- (A) Fe (B) Mg (C) Cu (D) Zn
73. An alloy which does not contain copper is :
- (A) Bronze (B) Magnalium (C) Brass (D) Bell metal
74. Bessemer converter is used in the refining of :
- (A) Pig iron (B) Steel (C) Wrought iron (D) Cast iron
75. Which of the following elements constitutes a major impurity in pig iron ?
- (A) Carbon (B) Oxygen (C) Sulphur (D) Silicon