

CW X13 EM

ANSWERKEY

1. A--- Ore

B---- For the formation of flux

2.a. Carbon monoxide (CO)



c. Silica (SiO_2)

d. Calcium oxide (CaO)

e. Calcium silicate ($CaSiO_3$)



g. Pig iron

h. Iron is less reactive

3.A-- Hard

B--- Fe, Al, Ni, Co

C---Nichrome

4. Nichrome

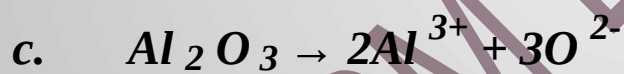
5. Alnico

6 A. $Al(OH)_3$

B. Al_2O_3

**7.a. Anode-Carbon rods
Cathode-Carbon lining**

b. The melting point of alumina is very high. Cryolite is added to alumina to reduce its melting point and increase its electrical conductivity



d. The oxygen gas liberated at carbon anode reacts and carbon rods will ruin. Therefore carbon rods are to be removed periodically.