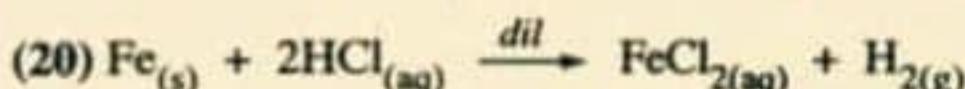
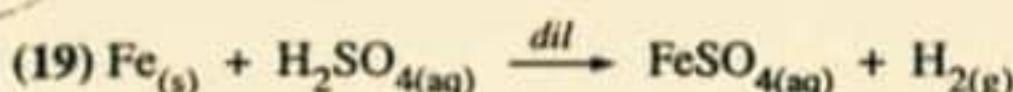
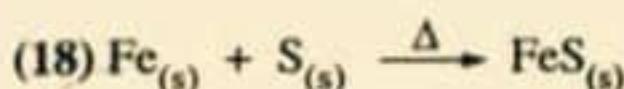
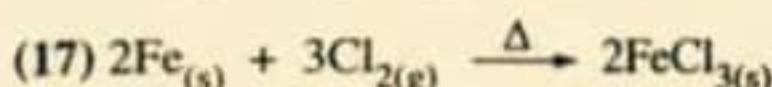
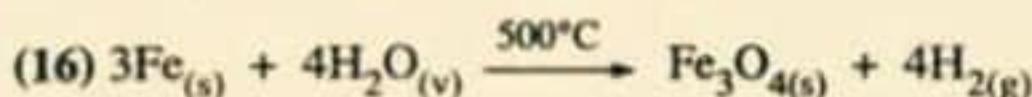
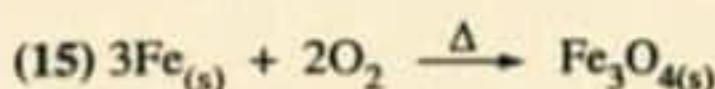
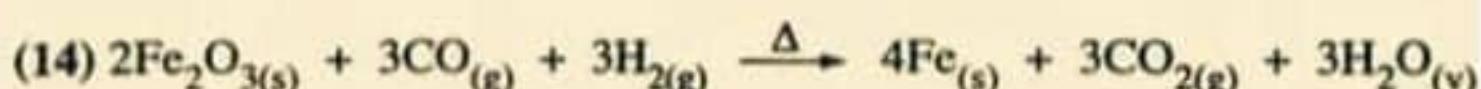
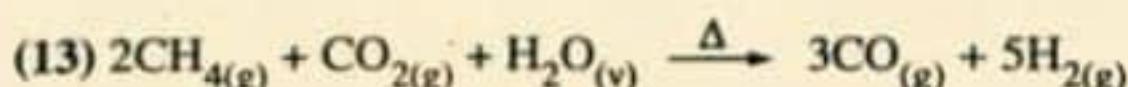
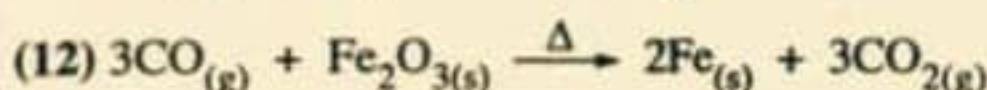
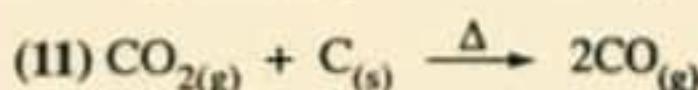
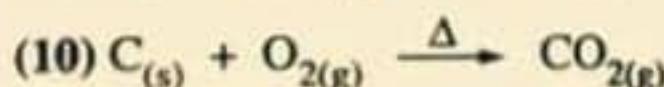
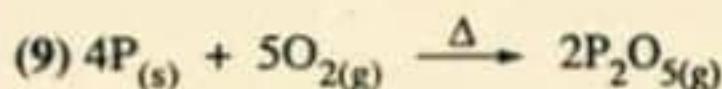
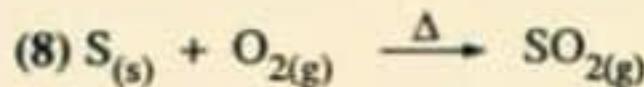
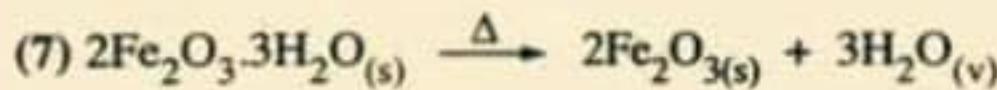
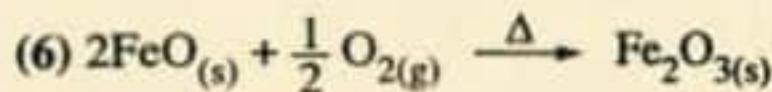
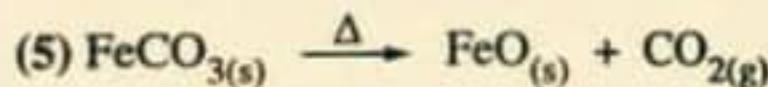
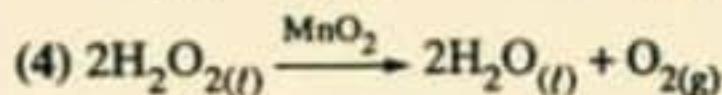
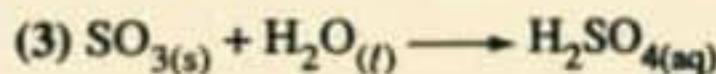
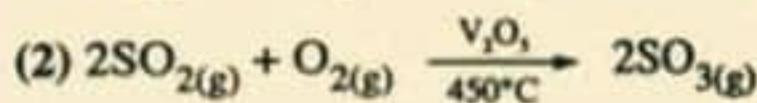
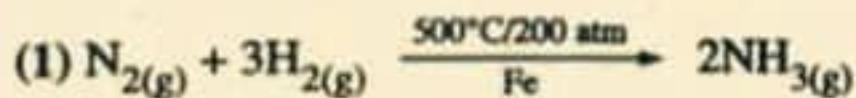
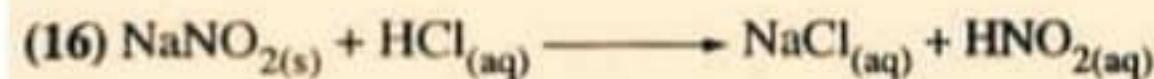
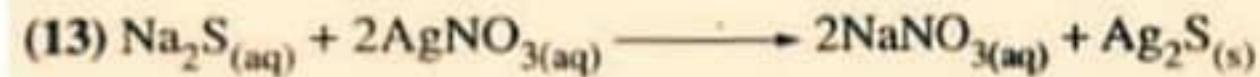
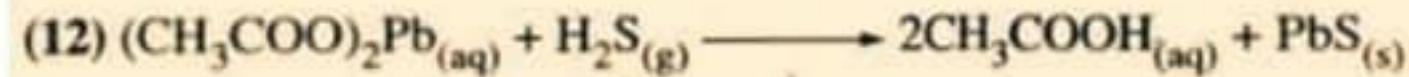
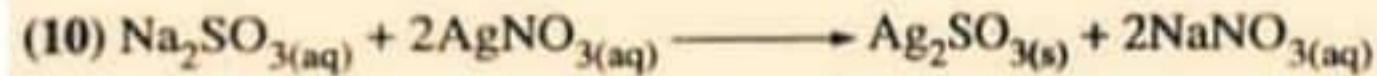
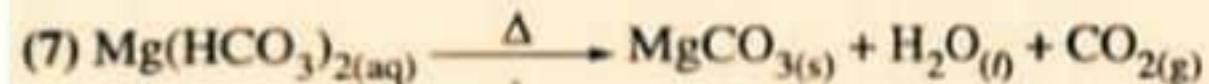
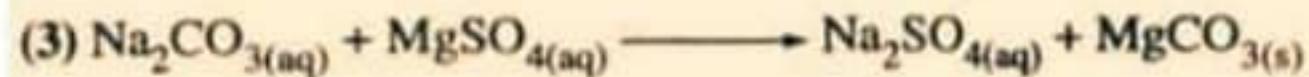
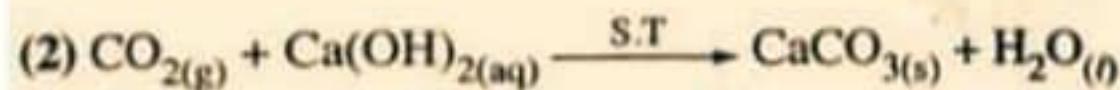


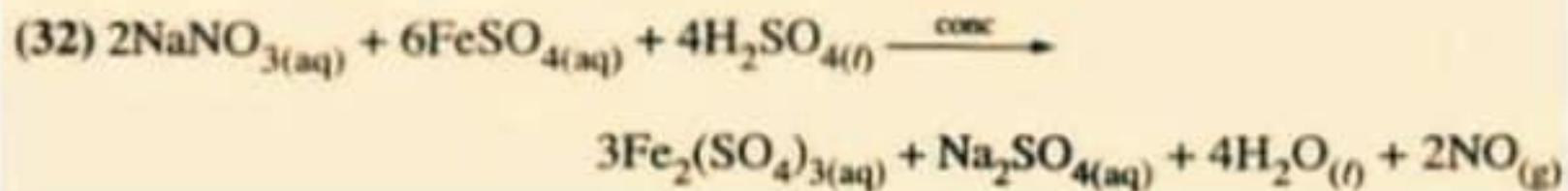
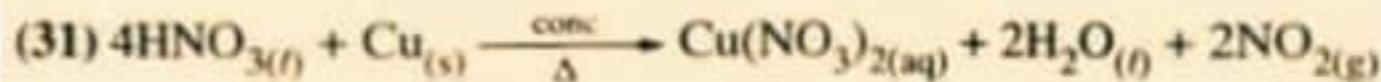
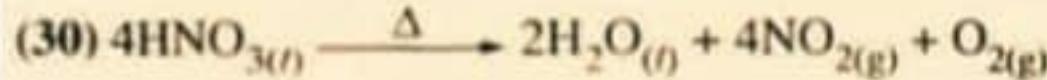
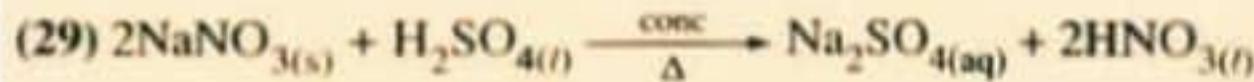
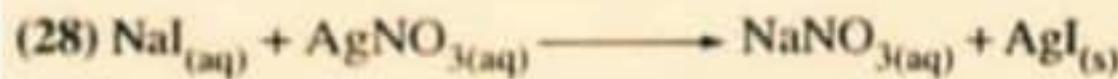
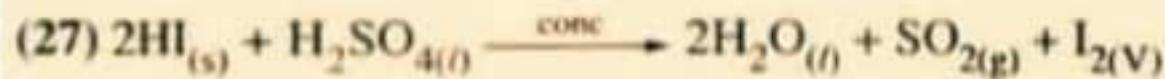
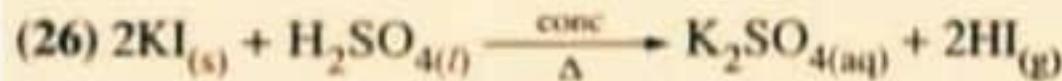
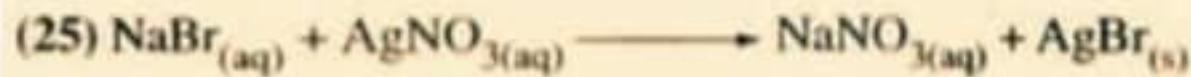
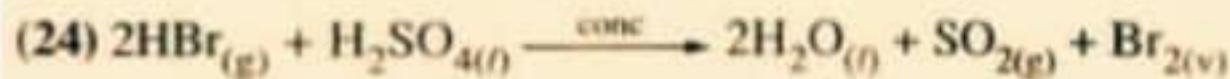
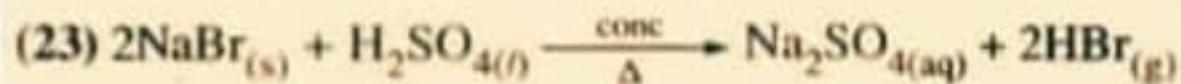
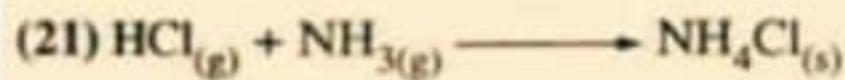
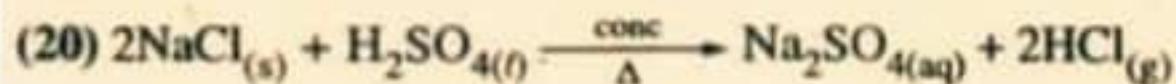
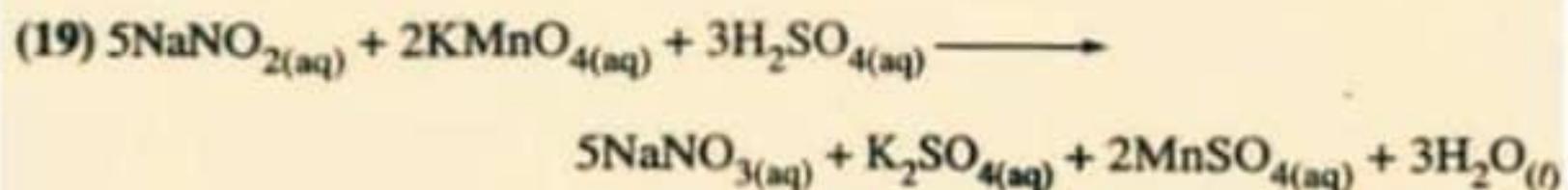
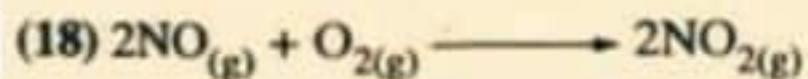
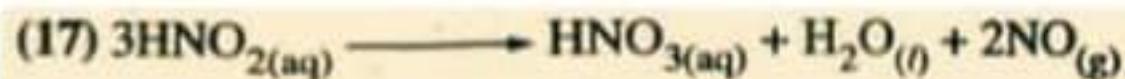
المعادلات الواردة بالباب الأول

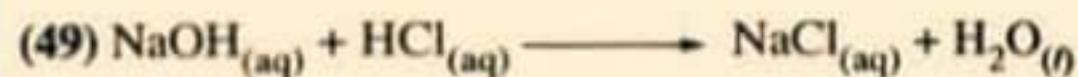
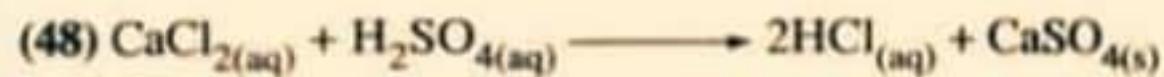
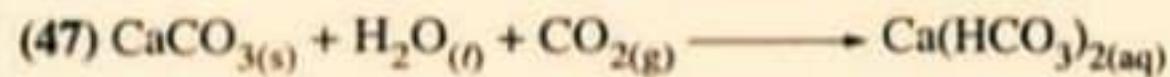
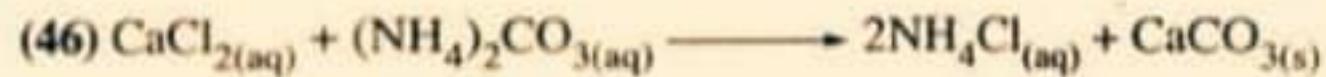
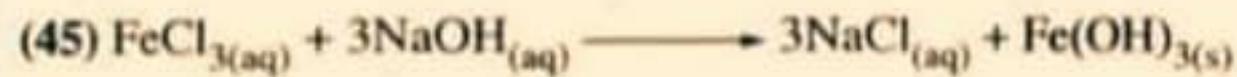
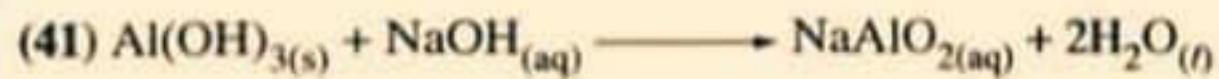
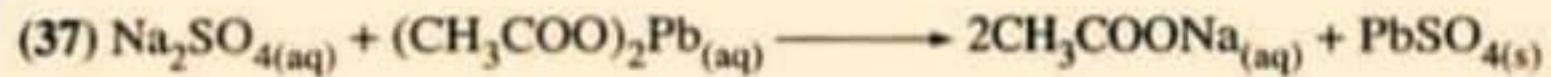
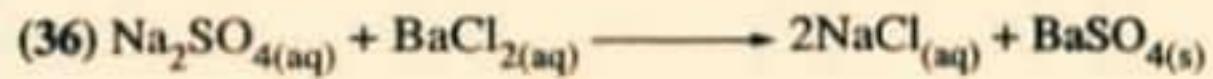
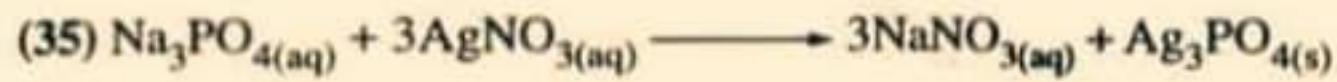
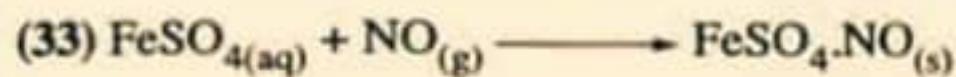


- (21) $3\text{Fe}_{(s)} + 8\text{H}_2\text{SO}_{4(l)} \xrightarrow[\text{conc}]{\Delta} \text{FeSO}_{4(\text{aq})} + \text{Fe}_2(\text{SO}_4)_{3(\text{aq})} + 4\text{SO}_{2(g)} + 8\text{H}_2\text{O}_{(v)}$
- (22) $(\text{COO})_2\text{Fe}_{(s)} \xrightarrow[\text{بمغزيل من الـNaOH}]{\Delta} \text{FeO}_{(s)} + \text{CO}_{2(g)} + \text{CO}_{(g)}$
- (23) $\text{Fe}_2\text{O}_{3(s)} + \text{H}_{2(g)} \xrightarrow[400^{\circ}: 700^{\circ}\text{C}]{\Delta} 2\text{FeO}_{(s)} + \text{H}_2\text{O}_{(v)}$
- (24) $\text{Fe}_3\text{O}_{4(s)} + \text{H}_{2(g)} \xrightarrow[400^{\circ}: 700^{\circ}\text{C}]{\Delta} 3\text{FeO}_{(s)} + \text{H}_2\text{O}_{(v)}$
- (25) $4\text{FeO}_{(s)} + \text{O}_{2(g)} \xrightarrow{\Delta} 2\text{Fe}_2\text{O}_{3(s)}$
- (26) $\text{FeO}_{(s)} + \text{H}_2\text{SO}_{4(\text{aq})} \xrightarrow{dil} \text{FeSO}_{4(\text{aq})} + \text{H}_2\text{O}_{(l)}$
- (27) $\text{FeCl}_{3(\text{aq})} + 3\text{NH}_4\text{OH}_{(\text{aq})} \longrightarrow \text{Fe(OH)}_{3(s)} + 3\text{NH}_4\text{Cl}_{(\text{aq})}$
- (28) $2\text{Fe(OH)}_{3(s)} \xrightarrow{>200^{\circ}\text{C}} \text{Fe}_2\text{O}_{3(s)} + 3\text{H}_2\text{O}_{(v)}$
- (29) $2\text{FeSO}_{4(s)} \xrightarrow{\Delta} \text{Fe}_2\text{O}_{3(s)} + \text{SO}_{2(g)} + \text{SO}_{3(g)}$
- (30) $\text{Fe}_2\text{O}_{3(s)} + 3\text{H}_2\text{SO}_{4(\text{aq})} \xrightarrow[\text{conc}]{\Delta} \text{Fe}_2(\text{SO}_4)_{3(\text{aq})} + 3\text{H}_2\text{O}_{(v)}$
- (31) $3\text{Fe}_2\text{O}_{3(s)} + \text{CO}_{(g)} \xrightarrow[230^{\circ}: 300^{\circ}\text{C}]{\Delta} 2\text{Fe}_3\text{O}_{4(s)} + \text{CO}_{2(g)}$
- (32) $\text{Fe}_3\text{O}_{4(s)} + 4\text{H}_2\text{SO}_{4(l)} \xrightarrow[\text{conc}]{\Delta} \text{FeSO}_{4(\text{aq})} + \text{Fe}_2(\text{SO}_4)_{3(\text{aq})} + 4\text{H}_2\text{O}_{(v)}$
- (33) $2\text{Fe}_3\text{O}_{4(s)} + \frac{1}{2}\text{O}_{2(g)} \xrightarrow{\Delta} 3\text{Fe}_2\text{O}_{3(s)}$
- (34) $\text{FeSO}_{4(\text{aq})} + 2\text{NaOH}_{(\text{aq})} \longrightarrow \text{Na}_2\text{SO}_{4(\text{aq})} + \text{Fe(OH)}_{2(s)}$
- (35) $\text{FeO}_{(s)} + \text{H}_{2(g)} \xrightarrow{\Delta} \text{Fe}_{(s)} + \text{H}_2\text{O}_{(v)}$
- (36) $\text{FeO}_{(s)} + 2\text{HCl}_{(\text{aq})} \xrightarrow{dil} \text{FeCl}_{2(\text{aq})} + \text{H}_2\text{O}_{(l)}$

المعادلات الواردة بالباب الثاني







المعادلات الواردة بالباب الخامس

