$24.\,$ Balance the following redox equations.

(a)
$$U^{4+} + MnO_4^- \longrightarrow Mn^{2+} + UO_2^{2+}$$
 (acidic)

(c)
$$Fe^{2+} + Cr_2O_7^{2-} \longrightarrow Cr^{3+} + Fe^{3+}$$
 (acidic)

(h)
$$CN^- + lO_3^- \longrightarrow l^- + CNO^-$$
 (basic)

(i)
$$Sn^{2+} + H_2O_2 \longrightarrow Sn^{4+}$$
 (basic)

(j)
$$Br_2 \longrightarrow Br^- + BrO_3^-$$
 (basic)

(k)
$$HSO_3^- + lO_3^- \longrightarrow l_2 + SO_4^{2-}$$
 (acidic)

(m)
$$\mathrm{Mn^{2+}} + \mathrm{HBiO_3} \longrightarrow \mathrm{Bi^{3+}} + \mathrm{MnO_4^-}$$
 (acidic)

(n)
$$H_2O_2 + Cr(OH)_4^- \longrightarrow CrO_4^{2-}$$
 (basic)

(p)
$$As_2S_3 + NO_3^- \longrightarrow NO + SO_4^{2-} + H_3AsO_4$$
 (acidic)

$$(v) \ \ KMnO_4 + H_2S + H_2SO_4 \quad {\displaystyle \longrightarrow} \quad K_2SO_4 + MnSO_4 + S \ (basic)$$