

Q.2(iii)

SOLUTION:

- Tri ammine dichloro platinum (II)
- Tetra carbonyl iron (0)
- Sodium hexa fluoro Aluminate (III)
- Dibromo bis (ethylene diamine) Cobalt (III) bromide.

Q.2(iv)

SOLUTION:

- $Z = 17 = 1s^2 2s^2 2p^6 3s^2 3p^5$

Period = 3

Group = VII – A

Block = p

- $Z = 24 = 1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^5$

Period = 4

Group = VI – B

Block = d

- $Z = 29 = 1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^{10}$

Period = 4

Group = I – B

Block = d

- $Z = 49 = 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^1$

Period = 5

Group = III – A

Block = p

Q.2(v)

SOLUTION:

- $\text{Na}_2\text{CO}_3 + \text{SiO}_2 \rightarrow \text{Na}_2\text{SiO}_3 + \text{CO}_2$
- $4\text{H}_3\text{BO}_3 + \text{Na}_2\text{CO}_3 \rightarrow \text{Na}_2\text{B}_4\text{O}_7 + 6\text{H}_2\text{O} + \text{CO}_2$
- $6\text{PbO} + \text{O}_2 \xrightarrow{450^\circ\text{C}} 2\text{Pb}_3\text{O}_4$
- $2\text{Al} + 2\text{NaOH} + 2\text{H}_2\text{O} \rightarrow 2\text{NaAlO}_2 + 3\text{H}_2$