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AS Chemistry

Topic 3 – Redox Reactions

Assignment Questions

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Year 2024

Redox Reactions

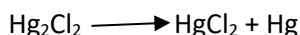
Q1: Calculate the oxidation number in following :

a) Sulfur in SO_4^{2-}

b) Phosphorus in P_4O_{10}

c) Cl in : i) Cl_2O_6 ii) ClO^+

Q2: Calomel is mercury (I) chloride. It decomposes after exposed to UV light.



a) Calculate the oxidation number of mercury in each of two products.

b) Classify the reaction as redox or disproportionation , and explain your answer.

Q3: In terms of electrons explain what oxidising agent is.

Q4: Write the formula for each of the following compounds.

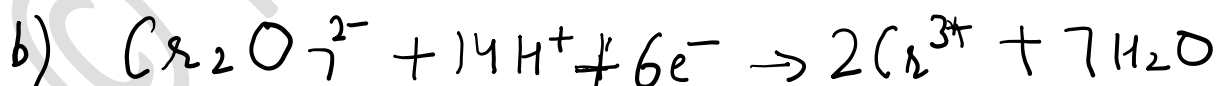
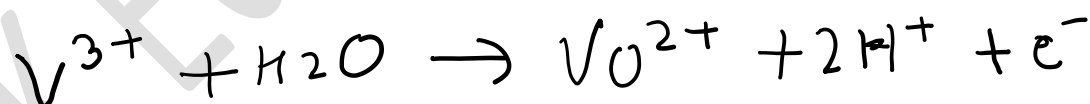
a) Copper (II) Chloride

b) Chromium (VI) oxide.

Q5: Use pairs of each half equations to write down balanced full ionic equations.



and



and



Q6: A precipitate of silver chloride , AgCl , when silver nitrate solution, AgNO_3 is added to sodium chloride solution. Write the ionic equations for the reaction include state symbols.