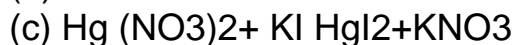
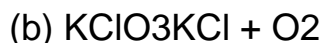


Chemical Equations

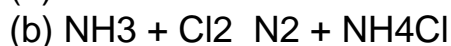
1. What information do you get from a balanced chemical equation? (AS1)

2. Why should we balance a chemical equation? (AS1)

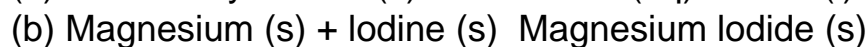
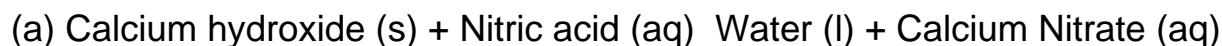
3. Balance the following chemical equations. (AS1)



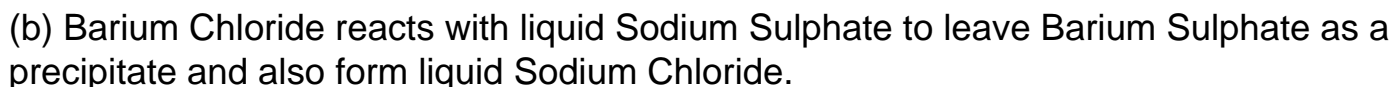
4. Mention the physical states of the reactants and products of the following chemical reactions and balance the equations. (AS1)



5. Balance the following chemical equation after writing the symbolic representation. (AS1)

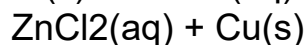


6. Write the following chemical reactions including the physical states of the substances and balance chemical equations. (AS1)



7. Potassium nitrate and Sodium Nitrate reacts separately with copper sulphate solution. Write balanced chemical equations for the above reactions. (AS1)

8. 2 moles of Zinc reacts with a cupric chloride solution containing 6.023×10^{22} formula units of CuCl_2 . Calculate the moles of copper obtained (AS1)



9. 1 mole of propane (C_3H_8) on combustion at STP gives 'A' kilo joules of heat energy. Calculate the heat liberated when 2.4 ltrs of propane on combustion at STP. (AS1)

10. Calculate the mass and volume of oxygen required at STP to convert 2.4 kg of graphite into carbon dioxide. (AS1)

11. Calculate the volume and No. of molecules of CO₂ liberated at STP. If 50 g. of CaCO₃ is treated with dilute hydrochloric acid which contains 7.3 g of dissolved HCl gas.

The Chemical equation for the above the reaction is



12. What are the steps involved in white washing of the walls.

13. Write the balanced chemical reactions using the appropriate symbols.