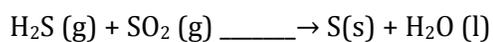


Class: X  
Subject: Chemistry  
Topic: Chemical reactions and equations  
No. of Questions: 20

- Q1. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
- Q2. In the equations given below, state giving reasons, whether substances have been oxidised or reduced. (i)  $\text{PbO} + \text{CO} \rightarrow \text{Pb} + \text{CO}_2$  (ii)  $\text{H}_2\text{S} + \text{Cl}_2 \rightarrow 2\text{HCl} + \text{S}$ .
- Q3. The oxidation reaction which produces heat and light is
- A. Endothermic
  - B. Photochemical
  - C. Combustion
  - D. Exothermic
- Q4. Define displacement
- Q5. Why is photosynthesis considered as an endothermic reaction?
- Q6. The above reaction is an example of a
- A. Combination reaction
  - B. Double displacement reaction
  - C. Decomposition reaction
  - D. Displacement reaction
- Q7. What are the characteristics of chemical reactions?
- Q8. To balance a chemical equation, can we change the formulae of either reactants or Products
- Q9. What is the ratio of number of moles of reactants to the number of moles of products in the equation.



- Q10. The conversion of  $K_2Cr_2O_7$  into  $Cr_2(SO_4)_3$  is a process of
- Oxidation
  - Reduction
  - Decomposition
  - Substitution
- Q11. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.
- Q12. Amino acid is formed by decomposition of which component of our diet?
- Carbohydrate
  - Starch
  - Protein
  - Fat
- Q13. A solution of  $Na_2CO_3$  is mixed with a solution of  $CaCl_2$ . Predict what happens.
- Q14. The oxidation of iron to rust is a problem, but the oxidation of aluminium to aluminium oxide is not why?
- Q15. Can rancidity be retarded by storing foods away from light?
- Q16. What are the different ways can make more informative about the chemical equation?
- Q17. (a) Would you expect aluminium oxide to be a solid, liquid, or gas at room temperature?  
(b) write the balanced chemical equation for the reaction of aluminium oxide with nitric acid.
- Q18. Loss of electrons is called \_\_\_\_\_
- Reduction
  - Oxidation
  - Can be oxidation or reduction
  - None of these
- Q19. What is the difference between displacement and double displacement reactions? Write equation for these reactions.
- Q20. A shiny brown coloured element 'X' on heating in air becomes black in Colour. Name the element 'X' and the black coloured compound formed.