**Karan Arora** **R.L. Chemistry Classes M: 99968-68554 Max Time : 1 hr** **Class = 10th Science Test**  **Max Marks : 25**

**Topic : Chemical Reactions and Equations**

1. Multiple Choice Questions : [ 1 x 5 = 5 ]
2. Which of the following does not represent the balanced chemical reaction correctly ?

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| a) Na (s) H2O (l) → NaOH (aq) + H2 (g) | b) BaCl2 (aq) + Na2SO4 (aq) → BaSO4 (aq) + 2 NaCl (aq) |
| c) H2 (g) + Cl2 (g) → 2 HCl (g) | d) CaO (s) + H2O (l) → Ca(OH)2 (aq) |

1. The reaction in which heat is evolved are called

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| --- | --- |
| a) thermal reactions | b) exothermic reactions |
| c) endothermic reactions | d) photochemical reactions |

1. When crystals of ferrous sulphate are heated, they decompose to form

|  |  |
| --- | --- |
| a) FeO (s) and SO2 (g) | b) FeO (s) and SO3 (g) |
| c) Fe2O3 (s) , SO2 (g) and SO3 (s) | d) Fe2O3 (s) , SO2 (g) and SO3 (g) |

1. When crystals of lead nitrate are heated, they decompose to form

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| a) Pb (s) and NO2 (g) | b) PbO (s) , NO2 (g) and O2 (g) |
| c) Pb (s) , NO2 (g) and O2 (g) | d) PbO (s) , NO (g) and NO2 (g) |

1. On electrolytic decomposition of water, the ratio of H2 and O2 gases collected is

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| --- | --- |
| a) 1 : 1 | b) 1 : 2 |
| c) 2 : 1 | d) depends on amount of H2O taken |

1. Give one example of a reaction which is a double displacement reaction as well as a precipitation reaction. [ 1 ]
2. What type of reaction is represented by the digestion of food in our body? [ 1 ]
3. Give one example of combination reaction which is also exothermic. [ 2 ]
4. Why does the copper sulphate change when an iron nail is dipped in it ? [ 2 ]
5. What do you mean by exothermic and endothermic reactions? Give examples. [ 2 ]
6. Why is respiration considered as an exothermic reaction? Explain. [ 2 ]
7. What is difference between the displacement and double displacement reactions? Write equations for these reactions. [ 2 ]
8. When you mixed the solutions of lead (II) nitrate and potassium iodide [ 3 ]
9. What is the colour of the precipitate formed? Name the compound precipitated.
10. Write the balanced chemical equation for this reaction.
11. Is this also a double displacement reaction ?
12. Balance the following chemical equations : [ 1 x 5 = 5]
13. Barium chloride + Aluminium sulphate → Barium sulphate + Aluminium chloride
14. Aluminium + Copper chloride → Aluminium chloride + Copper
15. Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
16. Mg + CO2 MgO + C
17. NH3 + O2 → N2 + H2O