CLASS X- CHEMISTRY CHEMICAL REACTIONS & EQUATION

ASSIGNMENT-1

MULTIPLE CHOICE QUESTION-1.1

1.	In the balanced equation $aFe_2O_3 + bH_2 \longrightarrow cF$ The value of a,b,c,d are (A) 1,1,2,3	Fe + dH ₂ O	(C) 1,3,2,3	(D) 1,2,2,3	
2.	Which of the following re (A) $2NaHCO_3 \longrightarrow Na$ (C) $2AI + 6H_2O \longrightarrow 2$	2 0 2 2	(B) $2C_4H_{10} + 120_2$ (D) $4NH_3 + 5O_2 \longrightarrow$	\rightarrow 8CO ₂ + 10H ₂ O	
3.		$NO_3 \rightarrow Cu(NO_3)_2 + yNO_3$		(D) 7 and 1	
4.	Neutralization reaction is (A) exothermic reaction (C) oxidation	s an example of -	(B) endothermic reaction (D) none of these	n	
5.	Which of the following statements is/are true \ (A) The total mass of the substance remains same in a chemical change. (B) A chemical change is permanent and irreversible. (C) A physical change is temporary and reversible. (D) All the these.				
6.	Which of the following statements is correct (A) A chemical equation tells us about the substances involved in a reaction. (B) A chemical equation informs us about the symbols and formulae of the substances involved in a reaction. (C) A chemical equation tells us about the atoms or molecules of the reactants and products involved in a reaction. (D) All are correct.				
7.	Zn(s) + H ₂ SO ₄ (aq) ————————————————————————————————————	→ ZnSO ₄ (aq) + H ₂ (g) is	an example of- (B) endothermic reaction (D) change in colour	n	
8.	When dilute hydrochloric acid is added to iron fillings - (A) hydrogen gas and ferric chloride are produced. (B) chlorine gas and ferric hydroxide are produced. (C) no reaction takes place. (D) iron salt and water are produced.				
9.	In the reaction xPb (NO (a) 1,1,2	$_{3}$)32 $\xrightarrow{\text{Heat}}$ yPbo + zN (B) 2,2,4	NO ₂ + O ₂ x,y and z are - (C) 1,2,4	(D) 4,2,2	
10.	In the reaction FeSo ₄ + (A) Na ₂ SO ₄	$x \longrightarrow Na_2SO_4 + Fe(Ol$ (B) H_2SO_4	H) ₂ , x is - (C) NaOH	(D) None of these	

SUBJECTIVE QUESTION-1.2

- 1. Balance the following equations -
 - (i) HgO \longrightarrow Hg + O₂
 - (ii) $C_4H_{10}(g) + O_2(g) \longrightarrow CO_2(g) + H_2O(\ell)$
- 2. What are chemical equations? Give significance and limitations of chemical equations?
- 3. What information do we get from a chemical equation? Explain with the help of examples.
- 4. Write the balanced chemical equations for the following chemical reactions -
 - (i) Aqueous solution of sulphuric acid and sodium hydroxide reacts to from aqueous sodium sulphate an water.
 - (ii) Phosphorus burns in chlorine gas to from phosphorus pentachloride.
- 5. Write the balance chemical equations for the following reactions -
 - (i) Zinc carbonate (s) Zinc oxide (s) + Carbon dioxide (g)
- 6. What happens when electric current is passed through slightly acidic water?
- 7. What happens when silver nitrate is mixed with a solution of sodium chloride?
- 8. What do you mean by exothermic reactions? Explain with an example.
- 9. What do you mean by endothermic reactions? Explain with an example.

