HOME WORK 7 CHAPTER 7

Name		
		-
MIII TIPI F CHOICE	Choose the one altern	native that l

D) all of the above

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which of the following is evidence for a chemical reaction?

 A) A flame is observed.

 B) A precipitate is formed.

 C) A gas is detected.
- E) none of the above

 2) Which of the following elements occurs naturally as diatomic molecules?

 2) _____
 - A) fluorine gas
 B) iodine vapor
 C) chlorine gas
 - C) chlorine gas
 D) all of the above
 E) none of the above
- 3) What is the coefficient of carbon dioxide after balancing the following equation?

 3) ______
 - $\underline{\text{KHCO}_3(s)} \xrightarrow{\Delta} \underline{\text{K}_2\text{CO}_3(s)} + \underline{\text{H}_2\text{O}(g)} + \underline{\text{CO}_2(g)}$
 - A) 1 B) 3
 - C) 4 D) 2
- 4) What is the coefficient of nickel metal after balancing the following equation?

 4) _____

5) _____

$$Fe(s) + Ni(NO_3)_2(aq) \rightarrow Fe(NO_3)_3(aq) + Ni(s)$$

- A) 4
- B) 2
- C) 1
- D) 3
- E) none of the above

E) none of the above

5) What type of chemical reaction is illustrated in the following example?

where of chemical reaction is illustrated in the following example?

KHCO3(s)
$$\xrightarrow{\Delta}$$
 K2CO3(s) + H2O(g) + CO2(g)

- A) double-replacement reaction
- B) single-replacement reaction
- C) combination reaction
- D) decomposition reaction
- E) neutralization reaction

6) What type of chemical reaction is illustrated in the following example?							
AlCl3(aq) + A) double-repla	- AgNO3(aq) → Al(N cement reaction	$NO_3(aq) + AgCl(s)$	C I		6)		
B) combination (C) decomposition							
D) neutralization							
E) single-replace							
7) What is the predict	ed product from the	e following combinat	ion reaction?		7)		
•	* A	e following combinat	non reaction.		′) —		
$K(s) + Cl_2(s)$		C) V2C1	D) VC1	E) VCla			
A) KCl ₂	B) K ₂ Cl	C) K3Cl	D) KCl	E) KCl3			
8) Which of the follow	ving metals does <i>no</i>	t react with aqueous	Ni(NO3)2?		8)		
Partial Activity Series: Mg > Al > Ni > (H) > Cu							
A) Cu							
B) Al							
C) Mg	***						
D) all of the abov E) none of the al							
L) Hone of the at	50VC						
9) Which of the follow	ving metals reacts w	vith sulfuric acid?			9)		
A) Cd							
B) Cu							
C) Ag							
D) all of the abov							
E) none of the ab	oove						
10) What are the produ	ıcts from the follow	ing single-replaceme	ent reaction?		10) _		
Zn(s) + Cus	, ,,						
A) CuO and ZnS							
B) CuO and ZnS	6O4						
C) no reaction							
D) Cu and ZnSO							
E) Cu and ZnSO	23						
11) What are the produ	ıcts from the follow	ing single-replaceme	ent reaction?		11) _		
$Mg(s) + H_2$	$2SO_4(aq) \rightarrow$						
A) no reaction							
B) MgO and H2							
C) MgSO4 and I							
D) MgO and H2							
E) MgSO4 and H	H ₂ O						
40) 147 1 2 2 2 2 2	. 1.1		2		42)		
12) Which of the followA) NiCO3	ving solid compoun B) Ba(OH)2	ids is soluble in wate: C) Ag3PO4	r? D) CuS	E) PbCrO4	12) _		
11) 111003	D_j $Da(O11)_Z$	C) 11831 O4	D_{j} Cub	L) 1 0C1O4			

13) What are the products from the following double-replacement reaction? $AgNO3(aq) + Li3PO4(aq) \rightarrow$	13)
A) Ag ₃ PO ₃ and LiNO ₂	
B) Ag ₃ PO ₄ and LiNO ₃	
C) Ag ₃ P and LiNO ₃	
D) Ag ₃ PO ₄ and LiNO ₂	
E) Ag ₃ PO ₃ and LiNO ₃	
14) What are the products from the complete neutralization of phosphoric acid with aqueous lithium hydroxide?	14)
A) Li ₂ PO ₄ (aq) and H ₂ O(l)	
B) Li ₃ PO ₄ (aq) and H ₂ O(l)	
C) LiHPO $_4(aq)$ and H $_2$ O(l)	
D) LiH ₂ PO ₄ (aq) and H ₂ O(l)	
E) Li ₂ HPO ₄ (aq) and H ₂ O(l)	
15) Methane, CH ₄ , can be used as fuel in an automobile to reduce pollution. What is the coefficient of	15)
oxygen in the balanced equation for the reaction?	
$_CH_4(g) + _O_2(g) \xrightarrow{spark} _CO_2(g) + _H_2O(g)$	
A) 1	
B) 4	
C) 2	
D) 3	
E) none of the above	