

COMPOUNDS

TEST _____

Oxides – 2

Date: _____

1. I. Nonmetal oxides are acidic oxides
II. Metal oxides are basic oxides
III. Amphoteric metals form salts with both of acid and base
Which of the statement(s) is (are) correct?
A) I B) II C) III D) I-II E) I-II-III
2. Which one of the following groups has amphoteric property?
A) Mg(OH)_2 , SO_3 , SiO_2
B) ZnO , Al_2O_3 , Zn(OH)_2
C) BeO , Be(OH)_2 , MgO ,
D) FeO , CaO , SO_2
E) Al(OH)_3 , CaO , SO_2
3. The oxide XO forms salt with HCl acid, but no reaction with KOH. For the element X;
I. Metal II. Nonmetal III. Amphoteric metal
Which one(s) of them is (are) correct?
A) I B) II C) III D) I-II E) I-III
4. XO reacts with both HCl and NaOH. YO doesn't react with both HCl and NaOH. Which of the following is wrong?
A) X is a metal
B) Y is a nonmetal
C) YO_2 is a peroxide
D) Y_2O_3 is an acidic oxide
E) X reacts with NaOH and produces H_2 gas.
5. Which of the following is not peroxide?
A) ZnO B) H_2O_2 C) Na_2O_2 D) CaO_2 E) MgO_2
6. I. CaO_2 II. PbO_2 III. H_2O_2 IV. CO_2
Which of the above oxides is (are) peroxides?
A) only I B) only II C) only III D) II-IV E) I-III
7. X_2O is a basic oxide;
I. X is a metal
II. X_2O forms salt with HCl acid.
III. X_2O forms salt with NaOH base.
Which statement(s) is (are) correct?
A) I B) II C) III D) I-II E) I-III
8. Which of the following is (are) true?
I. N_2O_5 and NO_2 are acidic oxides.
II. NO and N_2O are neutral oxides.
III. NO and NO_2 are basic oxides.
A) I only B) II only C) III only D) I-II E) I-III
9. The metallic X forms compounds $\text{X(NO}_3)_2$ and $\text{X(NO}_3)_3$ with polyatomic ion nitrate. According to that ;
I. XO is a neutral oxide
II. X_2O_3 is an acidic oxide
III. X_3O_4 is a mixed oxide
Which one(s) is (are) correct?
A) I B) II C) III D) I – II E) I-III
10. The statements about $\text{CO}_{2(g)}$ and $\text{NH}_{3(g)}$ are;
I. Both gases react with NaOH solution.
II. CO_2 is acidic oxides
III. Oxidation number of nitrogen in NH_3 is +3
Which one(s) expected to be correct?
A) I B) II C) III D) I-III E) I-II
11. The metal X in 2A group forms XO and XO_2 oxides. So that;
I. XO is basic oxide
II. XO_2 is peroxide
III. XO_2 is acidic oxide
Which one(s) is (are) correct?
A) I B) II C) I-II D) II-III E) I-III