

Chem Unit 4 Practice Test

The format and types of questions on this practice test are the same as those on the real test for Unit 4. This will not count for points but will be a realistic indicator of your success on the test to come.

- ____ 1. Which of the following is a binary compound?
A. O_2 B. HCN
C. H_2SO_4 D. H_2S
E. NaOH
- ____ 2. The correct name for FeO is
A. iron oxide B. iron (II) oxide
C. iron (III) oxide D. iron monoxide
E. iron (I) oxide
- ____ 3. Titanium (IV) oxide has the formula
A. Ti_4O B. TiO_4
C. $Ti(IV)O$ D. TiO_2
E. Ti_4O_2
- ____ 4. CO is the formula for
A. copper B. cobalt
C. carbon monoxide D. monocarbon monoxide
E. none of these
- ____ 5. The name of the compound $Pb(NO_3)_2$ is
A. lead nitrate B. lead dinitrate
C. lead (II) dinitrate D. lead (II) nitrite
E. lead (II) nitrate
- ____ 6. The correct formula for ammonium sulfate is
A. NH_4SO_3 B. NH_4SO_4
C. $(NH_4)_2SO_3$ D. $(NH_4)_2SO_4$
E. $(NH_4)_2SO_2$
- ____ 7. The charge on the aluminum ion is
A. +1 B. -3 C. +3 D. various charges are possible
- ____ 8. The name for NH_4Br is
A. nitrogen hydrogen bromide B. ammonium bromide
C. ammonium (I) bromide D. nitrogen tetrahydrogen bromide
E. none of these
- ____ 9. The correct formula for sodium bromide is
A. Na_2Br B. SBr
C. SBr₂ D. NaBr₂
E. NaBr
- ____ 10. What is the correct formula for sulfuric acid?
A. HSO_4 B. $H_2SO_4(aq)$
C. $H_2SO_3(aq)$ D. $HSO_3(aq)$
E. none of these

II.] Name the following compounds from their formulas. [10 pts]

- | | |
|-------|--|
| _____ | 1. $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ |
| _____ | 2. Fe_2S_3 |
| _____ | 3. N_2O_5 |
| _____ | 4. HNO_3 |
| _____ | 5. KCl |
| _____ | 6. $\text{Ba}_3(\text{PO}_4)_2$ |
| _____ | 7. NaOH |
| _____ | 8. Al_2O_3 |
| _____ | 9. SO_2 |
| _____ | 10. PbF_2 |

III.] Write the correct formulas in the blank to the left. [10 pts]

- | | |
|-------|--------------------------|
| _____ | 1. Iron (III) hydroxide |
| _____ | 2. Phosphoric acid |
| _____ | 3. Mercury (II) sulfide |
| _____ | 4. Silicon tetrafluoride |
| _____ | 5. Calcium nitrate |
| _____ | 6. Ammonium phosphate |
| _____ | 7. Tin (IV) sulfide |
| _____ | 8. Acetic acid |
| _____ | 9. Manganese (IV) oxide |
| _____ | 10. Aluminum sulfate |