CHEMISTRY

SAMPLE TEST QUESTIONS

1. Which of the following substances is an element:

a) ammonia b) helium

atomic number is:

c) water d) air
 2. An element with electron configuration 1s2 2s2 2p6 3s2 3p6 4s2is in the following period: a) the fifth b) the fourth c) the first d) the third
 3. An element with electron configuration 1s2 2s2 2p6 3s2 3p3is in the following period: a) the first b) the fifth c) the fourth d) the third
 4.In which sequence of elements are there elements with the lowest ionization energy? a) C, Si, Ge, Sn, Pb b) Be, P, Ca, S, Mn c) N, P, As, Sb, Bi d) Na, K, Rb, Cs, Fr
5.If an element is in the fourth period and in the second group, its ordinal number is: a) 15 b) 25 c) 20 d) 18
6. If the atomic masses for calcium 40 and for phosphorus 31, then the molecular weight for primary calcium phosphate is: a) 256 b) 218 c) 234 d) 236
 7. Of these molecules, the largest dipole moment is in: a) nitrogen b) hydrogen c) hydrogen chloride d) helium
8. An element with atomic number 16 has the properties most similar to an element which

- a) 6
- b) 32
- c) 34
- d) 17
- 9. The molecular weight of tertiary calcium phosphate is: (Ca = 40, P = 31)
 - a) 212
 - b) 365
 - c) 135
 - d) 310
- 10. The relative atomic mass of iodine is 127. What is the mass of the molecule of that element?
 - a) 4,23 x 1019
 - b) 254
 - c) 2,11 x 10-22
 - d) 4,23 x 10-22