

**AP MULTIPLE CHOICE QUESTIONS**  
**CH. 7, SET 1**

**AP Chem Test 2**

27. The correct ranking of alkali metals from most reactive to least reactive is:  
(A) Be – Mg – Co – Sr – Ba  
(B) Cs – Rb – K – Na – Li  
(C) F – Cl – Br – I  
(D) I – Br – Cl – F  
(E) Li – Na – K – Rb – Cs
28. Select the most unreactive element:  
(A) Cl (D) S  
(B) H (E) Xe  
(C) Na
25. Among the choices given, the atom with the largest size is:  
(A) bromine (D) helium  
(B) chlorine (E) iodine  
(C) fluorine
36. Select the light metal with a low melting point.  
(A) copper (D) phosphorus  
(B) iron (E) sulfur  
(C) lithium
20. What mass of Au is produced when 0.0500 mol of  $\text{Au}_2\text{S}_3$  is reduced completely with excess  $\text{H}_2$ ?  
(A) 9.85 g (D) 39.4 g  
(B) 19.7 g (E) 48.9 g  
(C) 24.5 g
21. When a solution of sodium chloride is vaporized in a flame, the color of the flame is:  
(A) blue (D) violet  
(B) yellow (E) white  
(C) green
43. The elements in which of the following have most nearly the same atomic radius?  
(A) Be, B, C, N  
(B) Ne, Ar, Kr, Xe  
(C) Mg, Ca, Sr, Ba  
(D) C, P, Se, I  
(E) Cr, Mn, Fe, Co

**1984**

**Qs 1 – 3**

- (A) F (D) Ar  
(B) S (E) Mn  
(C) Mg
1. Forms monatomic ions with 2- charges in solutions.
  2. Forms a compound having the formula  $\text{KXO}_4$ .
  3. Forms oxides that are common air pollutants and that yield acidic solution in water.

**1999**

Qs 17 – 18 refer to the following elements:

- (A) lithium (D) uranium  
(B) nickel (E) fluorine  
(C) bromine
17. Is a gas in its standard state at 298 K.
  18. Reacts with water to form a strong base.