

Choose the correct answer :

- 1- The reagent of the first group in alkaline radical is
HCl NH₄Cl H₂S
- 2- The reagent of the second a group in alkaline radical is
HCl H₂S HCl+H₂S
- 3- The reagent of the third group in alkaline radical is
NH₄Cl NH₄Cl+NH₄OH HCl
- 4- The reagent of sixth group in alkaline radical is
NH₄OH HCl No standardized reagent
- 5- The fourth group in alkaline radical contain for
Silver Cobalt Calcium
- 6- The fifth group in alkaline radical contain for
Strontium Iron Sodium
- 7- Cations of the first group precipitates in the form of
Sulfides Hydroxide Chlorides
- 8- Cations of the fifth group precipitates in the form of
Carbonate Sulfides Hydroxide
- 9- Cations of the second group precipitate in the form of
Carbonate Sulfides Hydroxide
- 10- The sixth group in alkaline radical contain for
Potassium Zinc Lead
- 11- In this compound (ZnCO₃) the cation is
Zn CO₃ ZnCO₃
- 12- In this compound (MgSO₄) the cation is
Mg SO₄ MgSO₄
- 13- Any cation group contains for Silver
First Second Third
- 14- Any cation group contain for Calcium
Fourth Fifth Sixth
- 15- Silver salts with K₂CrO₄ a precipitate is formed
Reddish brown ppt yellow ppt white ppt
- 16- Silver salts with HCl a precipitate is formed

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|-----|---|----------------------|-----------------------------|
| | White ppt | yellow ppt | red ppt |
| 17- | Lead salts with K_2CrO_4 a precipitate is formed | | |
| | Yellow ppt | white ppt | brown ppt |
| 18- | Copper salts with H_2S a precipitate is formed | | |
| | White ppt | black ppt | red ppt |
| 19- | Cadmium salts with H_2S a precipitate is formed | | |
| | White ppt | yellow ppt | yellow ppt |
| 20- | Copper salts with potassium ferrous cyanide a precipitate is formed | | |
| | White ppt | reddish brown ppt | yellow ppt |
| 21- | Copper salts with ammonium hydroxide a precipitate is formed | | |
| | White ppt | yellow ppt | blue ppt |
| 22- | Mercury salts with ammonium hydroxide a precipitate is formed | | |
| | White ppt | reddish brown ppt | yellow ppt |
| 23- | Mercury with KI a precipitate is formed | | |
| | White ppt | yellow ppt | red ppt |
| 24- | Aluminum salts with sodium hydroxide a precipitate is formed | | |
| | White ppt | white gelatinous ppt | red ppt |
| 25- | Ferric salts with potassium thiocyanate a precipitate is formed | | |
| | White ppt | yellow ppt | no apparent reaction occurs |
| 26- | Ferric salts with potassium cyanide ferrous a precipitate is formed | | |
| | White ppt | dark blue ppt | black ppt |
| 27- | Ferrous salts with $NaOH$ a precipitate is formed | | |
| | White gelatinous ppt | brown gelatinous ppt | yellow ppt |
| 28- | Chromium salts with $NaOH$ a precipitate is formed | | |
| | White ppt | green ppt | brown ppt |
| 29- | Cobalt salts with ammonium hydroxide a precipitate is formed | | |
| | Blue ppt | white ppt | yellow ppt |
| 30- | Manganese salts with sodium phosphate a precipitate is formed | | |
| | Bulb colored ppt | white ppt | black ppt |
| 31- | Strontium salts when put in a benzene flame give | | |
| | Scarlet color | red color | green color |
| 32- | Barium salts when put in a benzene flame give | | |

Scarlet color

yellow color

green color

33- Sodium compound when put in a benzene flame give

Green color

golden yellow color

red color