PRACTICAL PROBLEMS

PROBLEM 1 (Practical)

There are ten test tubes in the rack at your disposal (1 – 10) and each test tube contains one of aqueous solutions of the following salts: Na_2SO_4, $AgNO_3$, KI, $Ba(OH)_2$, NH_4Cl, Ag_2SO_4, $Pb(NO_3)_2$, NaOH, NH_4I, KCl.

For identification of the particular test tubes you can use mutual reactions of the solutions in the test tubes only.

Determine in which order the solutions of the salts in your rack are and write chemical equations of the reactions you used for identification of the salts.

PROBLEM 2 (Practical)

Each of the six test tubes (A – F) in the rack contains one of the following substances:

benzoic acid, salicylic acid, citric acid, tartaric acid, oxalic acid and glucose.

Determine the order in which the substances in the test tubes are placed in your rack and give chemical reactions you used for identification of the substances.

For identification of the substances the following aqueous solutions are at your disposal: HCl, H_2SO_4, NaOH, NH_4OH, $CuSO_4$, $KMnO_4$, $FeCl_3$, KCl, and distilled water.
