**Discussion Questions Solutions for experiment no..1**

1. **What is the purpose of activating the ion exchanger column?**

**A\ The purpose of the activation process is to remove dust, impurities and unwanted ions that located on the effective sites of the ion exchanger and make it ready to work.**

1. **Why we use silver nitrate as indicator for the collect solution from the column in the process of the activating for the ion exchanger column?**

**A\ because the eluent collect solution of a cationic column contains chlorine ions which are detected by silver nitrate.**

1. **What is the color of the methyl orange indicator when use it to check the acidic media and neutral media ?**

**A\ In acidic phase = pink color**

**In neutral phase = yellow color**