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DETERMINATION OF SODIUM, POTASSIUM AND
CALCIUM IN DIFFERENT SAMPLE OF SOILS IN
KHARTOUM

A Thesis submitted for the partial fulfillment of
the requirements for M.Sc
Degree in Industrial Chemistry

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

DEDICATED

TO

MY LOVING PARENTS,

“AND SAY MY LORD,

Have mercy on them(parents)both as they did
care for me when I was little.”

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Abstract:

The present study was conducted to determine the concentration of calcium, potassium and sodium present in soil with the help of different aspect of soil analysis. We estimated the nature of soil, like texture, moisture and as well as different absorbed minerals. In case of moisture determined in soil, we used the drying method. Similarly for the texture of soil, we did the separation of different layer by using of separating funnels, and in the last we determined the minerals present in soil, by titration method and by flame atomic absorption method. In titration method we titrated the soil sample by using different chemicals, like EDTA, NaOH, mercuric oxide (indicator), and in other method we determined the calcium, potassium and sodium in soil sample by flame atomic absorption spectroscopy.

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