



Eastern University, Sri Lanka

First Year Second Semester Examination in Science

CH 1041: Elementary Chemistry Laboratory

Group II

Answer all questions

Time: Three Hours

1. Perform suitable tests for the sample A provided and record your observations and inferences clearly for each test. Deduce the elements present in the sample and indicate whether these elements present in the sample are in Ionic or Non-ionic state.

2. Perform the following tests on sample B provided and record your observations and inferences. Hence, identify the functional groups present in the sample B.

Perform suitable confirmatory tests if necessary.

- a. Solubility tests with
 - i. Dil. HCl
 - ii. Dil. NaOH
 - b. Test aqueous sample of B with Litmus paper
 - c. Test with 30% of Na_2CO_3 (aq)
 - d. Test with 2,4-DNPH reagent
 - e. Test aqueous sample of B with neutral FeCl_3
 - f. Oxidation test for Alcohols
 - g. Treat with Hydroxylamine hydrochloride and neutral FeCl_3
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