

## EASTERN UNIVERSITY, SRI LANKA

## FIRST SEMESTER FIRST EXAMINATION IN SCIENCE- 2015/2016 (2018)

CH 152: Organic Analysis: Elemental Identification and Functional Group Analysis (Group 01)

- 1. Perform suitable tests on the sample <u>A</u> provided and record your observations and inferences clearly for each test. Deduce the elements present in the sample and indicate that these elements present in the sample are ionic or non-ionic state.
- 2. Perform suitable tests on the sample **B** provided and record your observations and inferences.

  Identify the functional groups present in the sample.
  - i) Solubility test with water, dil. HCl and dil. NaOH.
  - ii) Test the aqueous sample with Litmus paper 🕏
  - iii) Treatment with dil. Na2SO3 solution and test the evolved gas with lime water
  - iv) Test with 2,4-DNP reagent
  - v) Silver mirror test
  - Test with neutral ferric chloride
  - vii) Esterify with dil. H<sub>2</sub> SO<sub>4</sub> and acetic acid
  - viii) Test with chloroform and 10% NaOH solution
  - ix) Test with hydroxylaminehydrochloride (0.2 g) and 10% NaOH (aq).

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