

Ex/1CH/2/S/PR/47/2017

**FIRST B. SC. (CHEMISTRY) EXAMINATION, 2017**

( 2nd Semester )

**CHEMISTRY (SUBSIDIARY)**

**CHEMISTRY LABORATORY IS**

( **MATHEMATICS AND GEOGRAPHY HONOURS** )

( **PRACTICAL** )

Time : Three hours

Full Marks : 30

1. Make a systematic qualitative analysis of the Inorganic sample supplied in a bottle marked "A". The sample is supposed to contain two radicals. 25
2. Viva-voce. 5

Ex/1CH/2/S/PR/47/2017

**FIRST B. SC. (CHEMISTRY) EXAMINATION, 2017**

( 2nd Semester )

**CHEMISTRY (SUBSIDIARY)**

**CHEMISTRY LABORATORY IIS**

( **MATHEMATICS AND GEOGRAPHY HONOURS** )

( **PRACTICAL** )

Time : Three hours

Full Marks : 30

1. Estimate the total amount of Ferrous iron present in solution supplied marked "V" with the help of Potassium Dichromate solution. Data and calculation with results are only required. 25
2. Viva-voce. 5

Procedure : Transfer the total supplied solution quantitatively into a 250 ml volumetric flask. Make up the volume by distilled water. Shake thoroughly. Transfer 25 ml aliquot in a 500 ml conical flask. Add 50 ml water and 25 ml 4(N)  $H_2HO_4$ . Add 5 ml syrupy  $H_3PO_4$  followed by 2-3 drops of BDS indicator. Titrate with the supplied dischromate solution until the solution turns bluish violet. Take the reading.