

**2018**

**CBCS**

**3rd Semester**

**CHEMISTRY**

**PAPER—C7P**

**(Honours)**

**(Practical)**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Organic Chemistry—III Lab.**

1. Identification of supplied single solid organic compound marked 'O' accordingly.

(a) *Physical characteristics including solubility test ( $H_2O$ ), 5% HCl, 5% NaOH, 5%  $NaHCO_3$ , conc.  $H_2SO_4$ ). 2*

(b) Detection of special elements namely—Nitrogen (N), Sulphur(S) and Chlorine(Cl) in the supplied compound. 3

(c) Detection of the following functional groups in the given solid sample. 5

Carboxylic acid, Phenolic-OH, Carbonyl (Ketone and aldehyde), Unsaturation, aromatic nitro, aromatic amino, amido.

(d) Give the confirmative test of any one of the functional groups present in the supplied compound. 2

(e) Determination of melting point of the organic compound. 2

(f) Naming of the probable organic compound with structure. 1

2. Laboratory Note Book 2

3. Viva-Voce 3

**N.B.** Only Positive tests should be written in the paper. Melting point are to be shown and signed by the examiner.