2019

B.Sc. (Hons)

4th Semester Examination

CHEMISTRY

Paper - C8P

[Practical]

Full Marks : 20 Time : 3 Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Perform the following experiment (*one*) and write down the data in tabular form, do the calculation, plot (whenever required) and present the results.

   Write down the principle of the experiment in brief. 15

   (a) Determine the solubility product of supplied sparingly soluble salt in water/supplied electrolyte.

(b) Determine the strength of Mohr salt solution (supplied) potentiometrically using standard $K_2Cr_2O_7$ solution.

(c) Determine the concentration as well as solubility product of supplied $AgNO_3$ (aqueous) solution by potentiometric titration using a standard KCl solution.

(d) Determine the strength of supplied monobasic weak acid by pH-metric titration using NaOH solution. Also determine the pKa value for the weak acid.

Marks are distributed into writing of the principle, recording of temperature, representation of data in tabular form, graph plotting (if necessary) and result.

2. Laboratory Note Book 2

3. Viva-voce 3