

CITY COLLEGE

B.Sc. Semester I Practical Examination 2020-21

CHEMISTRY GENERAL

Paper: CC1/GE1

Time: 2 Hours

Full Marks: 30

1. You are supplied with standard $K_2Cr_2O_7$ solution to standardise a Mohr's solution of unknown strength and hence estimate Fe(II) in the said solution in terms of g/L.
[Write the underlying theory and ionic reactions, and report the titration in a tabular form]

Necessary data being supplied below to report the results:

- 1) Strength of the supplied $K_2Cr_2O_7$ solution = 1.02(N/20)
- 2) Volume of the Mohr's salt solution for each titration = 25ml
- 3) Titre values ($K_2Cr_2O_7$ solution)= a) 20.1 ml, b) 20.0 ml