CITY COLLEGE

B.Sc. Semester V Practical Examination 2020-21

CHEMISTRY GENERAL

Paper: DSE-A2

Time: 3 Hours   **Full Marks: 30**

1. Estimate the percentage of iron as ferric oxide present in a given sample of Ordinary Portland Cement using titrimetric method.
   Supplied Sample: 1g OPC
   Supplied Solutions: 1] N/50 $KMNO_4$ solution as self-indicating titrant.
                                    2] Zimmerman-Reinhardt solution.
                                    3] Concentrated HCl solution.
   Assume Titre Values as – 10.2mL (1st reading), 10.3mL (2nd Reading)
   For Calculation- 1mL N $KMNO_4$ solution ≡ 79.846mg Fe_2O_3

   a) Write down the Principle involved
   b) Write down the ionic equations involved
   c) Tabulate data
   d) Show calculations with final value correct to two places of decimal
   e) Write down the final result as:
                        The supplied sample of the OPC contained ………..% of Fe_2O_3 *by mass.*