UNIVERSITY OF CALCUTTA

VIDYASAGAR COLLEGE FOR WOMEN CENTRE

B.Sc. SEM 1 Chemistry General Practical Examination 2021

Subject: CEMG- CC1/GE1

Full Marks: 30

Estimate the strength of oxalic acid in g/L in a given solution by titrating against the KMnO4 solution

Given

1. Standardization of ~(N/20) $KMnO_4$ solution by standard (N/20) Oxalic acid solution

V_{Oxalic} = Volume of Oxalic acid solution pipetted out = 25 ml

S_{Oxalic} = Strength of Oxalic acid solution = 0.995(N/20)

V_{KMnO4} = Volume of $KMnO_4$ solution required for titration = 22.8 ml

2. Neutralization of supplied oxalic acid solution by standard $KMnO_4$ solution

V_{Oxalic} = Volume of supplied Oxalic acid solution pipetted out = 25 ml

V_{KMnO4} = Volume of $KMnO_4$ required for neutralization = 26.3 ml

Write the experimental result with respect to

a) Theory

b) Tabular form of experimental data

c) Calculation and result