

**CITY COLLEGE**

**(University of Calcutta)**

**B.Sc. Part – III (I+I+I) General Practical (Online) Examination, 2020**

**Subject: Chemistry General(CEMG)**

**Paper: IVB(Chemistry General Practical Examination)**

**Full Marks : 25**

**Q.1. Estimate the total hardness of water sample by Complexometric EDTA titration. (20marks)**

- a) Write down the theory of the above Experiment.  
b) Estimate the total Hardness of water using the following supplied data:

**i) Standardization of EDTA:**

Volume of Zinc Acetate : 25c.c. for each titration.

Strength of Zinc acetate : (M/100)

Volume of EDTA: 25.4c.c.,25.5c.c.,25.6c.c. respectively.

Put the values in tabular form and calculate the strength of EDTA solution.

**ii)For estimation of total Hardness of water sample:**

Volume of water sample : 50c.c. for each titration.

Volume of Standardized EDTA : 7.1c.c., 6.9c.c., 7.0c.c. respectively.

Put the values in tabular form and calculate the total Hardness of water sample.

**Q.2. Internal Assessment. (5 marks)**