

# Bankim Sardar College

## B.Sc Part III General Practical Examination, 2020

Subject - Chemistry

Paper-IVB

(Under 1+1+1 syllabus)

Full Marks-25

Time-- 2hrs

### 1.DETERMINATION OF TOTAL HARDNESS OF THE WATER SAMPLE SOLUTION

- a) Write down the theory/working formula of the experiment. (5)
- b) Record the supplied data of the experiment in a tabular form ( 2.5x2)
- c) Calculation
  - i) Determination of the strength of EDTA solution 5
  - ii) Determination of total hardness of the sample solution 5

**2.Laboratory Note book** 5

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### Supplied data

- i) Strength of Zinc acetate solution 1(M/100)
- ii) Standardisation of EDTA solution with the standard Zinc acetate solution.

Volume of Zinc acetate solution = 25ml.

Titre value of EDTA = 26ml. (Record in tabular form)

- iii) Estimation of the total hardness of the water sample solution by titration with EDTA solution  
Titre value of EDTA solution = 16.5 ml  
Volume of water solution taken = 50ml.  
( Record in tabular form)