

বিদ্যাসাগর বিশ্ববিদ্যালয় VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: CHEMISTRY

Paper: C 9-P

Inorganic Chemistry - III

Full Marks: 20

Time: 3 Hours



Candiates are required to give their answer in their own words as far as practicable.

The figures in the margin indicate full marks.

Group - A

Answer any one question:

5×1=5

5

- 1. (a) What are the criteria of a good metal indicator? Give two examples of metal indicator.
 - (b) Why is PH of the solution kept constant within a certain limit during titration with EDTA? (2+1)+2
- 2. Describe the methodology for the determination of permanent hardness of water.
- 3. Write down the principle for the complexometric estimation of Zn^{2+} in a salt.

Group - B Answer any one question: 10×1=10 1. Discuss the principle and methodology involved in the estimation of Ca²⁺ in a Ca²⁺ and Mg²⁺ mixture. 10 2. Write down the process of the preparation of potassium tri(oxalate) ferrate(III). 10 Group - C 1. Laboratory Notebook 2 2. Viva-voce 3