



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

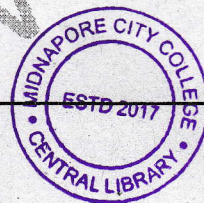
Semester - IV

Subject: CHEMISTRY

Paper : SEC 2-P

Full Marks : 15

Time : 3 Hours



*Candidates are required to give their answer in their own words as far as practicable.
The figures in the margin indicate full marks.*

(Basic Analytical Chemistry)

Answer any *one* from the following questions :

10×1=10

- (a) Describe the method of estimation of the total amount of Ca^{2+} ion and Mg^{2+} ion present in the given sample (g/l).
- (b) Discuss the Paper chromatographic separation procedure of mixture of metal ion (Fe^{3+} and Al^{3+}).
- (c) Describe Winkler method for estimation of dissolved oxygen (DO) of sea water.
- (d) Discuss the method for determination of pH of soil sample.

2. Laboratory Note Book

2

3. Viva Voce

3

Or,

(Chemistry of Cosmetics and Perfumes)

Answer any *one* question :

10×1=10

1. (a) Give a detailed outline of the method of the preparation of lipsticks.
- (b) Write down the method for the preparation of night cream.

Or,

2. (a) Write down the general method for the preparation of shampoo.
- (b) Write down the method for the preparation of nail enamel.

3. Laboratory Notebook

2

4. Viva-voce

3

Or,

(Pesticides Chemistry)

1. Calculate the acidity or alkalinity in supplied sample of pesticide formulation as per BIS specification.

10

Or,

Prepare any simple organophosphate, phosphonate or thiophosphonate.

2. Laboratory note-book.

2

3. Viva-voce.

3