

# CBSE EXAMINATION PAPER-2022

## CHEMISTRY

(Solved)

Time allowed : 3 hours

Maximum Marks : 3

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### General Instructions :

Read the following instructions carefully and follow them :

- i. This question paper contains **2 questions**. All questions are **compulsory**.
- ii. This question paper is divided into **2 sections**.
- iii. **Section A** – questions number **1 to 1** are short answer Each question carries **3 marks**.
- iv. **Section B** – questions number **2 to 2** are case based questions
- v. There is no overall choice given in the question paper. However, an internal choice has been provided in few questions.
- vi. Use of calculator is NOT allowed.

### Section A

#### Question 1.

Write three differences between Lyophobic sol and Lyophilic sol.

[3 Marks]

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### Section B

**Question 2.** Amines constitute an important class of organic compounds derived by replacing one or more hydrogen atoms of ammonia molecule by alkyl/aryl groups. Amines are usually formed from nitro compounds, halides, amides, etc. They exhibit hydrogen bonding which influences their physical properties. Alkyl amines are found to be

stronger bases than ammonia. In aromatic amines, electron releasing and withdrawing groups, respectively increase and decrease their basic character. Reactions of amines are governed by availability of the unshared pair of electrons on nitrogen. Influence of the number of hydrogen atoms at nitrogen atom on the type of reactions and nature of products is responsible for identification and distinction between primary, secondary and tertiary amines. Reactivity of aromatic amines can be controlled by acylation process.

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