

**BACHELOR OF SCIENCE (CBCS-2018 COURSE)**  
**T. Y. B. Sc. Sem-V : WINTER :- 2021**  
**SUBJECT: CHEMISTRY : INDUSTRIAL CHEMISTRY-I**

Day : Saturday  
Date 29-01-2022

W-18418-2021

Time : 02:00 PM-05:00 PM  
Max. Marks: 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
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**Q.1** Attempt **ANY TWO** of the following : **(12)**

- a) Explain manufacture of Portland cement.
- b) Explain manufacture of glass by pot furnace method.
- c) Differentiate between Batch Operations and Continuous Operations.

**Q.2** Attempt **ANY TWO** of the following : **(12)**

- a) Discuss classification of cement.
- b) Explain manufacture of sulphuric acid by contact process.
- c) Explain the process for the manufacture of window glass.

**Q.3** Attempt **ANY TWO** of the following : **(12)**

- a) Explain classification of glass.
- b) Discuss Physico-chemical principles involved in the manufacture of ammonia.
- c) Explain the process of manufacture of 'Safety Matches'.

**Q.4** Attempt **ANY THREE** of the following : **(12)**

- a) Discuss recovery of sucrose from molasses.
- b) Explain chemical reactions involved in the furnace.
- c) Discuss chemical properties of glass.
- d) Write a note on crystallization of sugar.

**Q.5** Attempt **ANY FOUR** of the following : **(12)**

- a) Explain Caramellization process.
- b) Explain pollution control process.
- c) Explain the process for the manufacture of chalk crayons.
- d) Explain rolling process for the manufacture of glass.
- e) Discuss the manufacture of Gum Paste.

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