

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-V : WINTER- 2022
SUBJECT : CHEMISTRY : INDUSTRIAL CHEMISTRY-I

Day : Friday

Time : 02:00 PM-05:00 PM

Date : 16-12-2022

W-18418-2022

Max. Marks : 60

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) Discuss the Physico-chemical principles involved in the manufacture of ammonia.
- b) What is meant by Quality Control and Process Control?
- c) Explain the manufacture of refined sugar from sugarcane with the help of flow sheet.

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

- a) Discuss Ostwald's method for the manufacture of HNO_3 with the help of flow sheet.
- b) Explain the manufacture of naphthalene ball and chalk crayon.
- c) Write a note on 'Clarification of juice'.

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

- a) Explain unit process in detail with suitable examples.
- b) Discuss Setting and Hardening of Cement.
- c) Write a note on 'special glasses'.

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

- a) Explain manufacture of 'Agarbattis'.
- b) Explain treatment of clinkers.
- c) Discuss fourcault process for the manufacture of window glass.
- d) Which colouring agents are used in the manufacture of glass?

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

- a) Write composition, properties and uses of optical glass.
- b) Explain the manufacture of shoe polish.
- c) Explain Pollution Control.
- d) Explain Compound Imbibition Process.
- e) Write composition, properties and uses of bottle glass.
