

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : WINTER - 2018

SUBJECT : INDUSTRIAL CHEMISTRY – I

Day : Saturday
Date : 20/10/2018

W-2018-0756

Time : 03.00 P.M. To 06.00 P.M.
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt **ANY TWO** of the following : **(12)**

- a) Describe the contact process for the manufacture of sulphuric acid with flow sheet.
- b) Explain the process for the manufacture of sugar from sugar-cane with flow sheet.
- c) What is small scale industry? Explain the manufacture of wax candle and shoe polish.

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

- a) Describe physico-chemical principles involved in the manufacture of Nitric acid.
- b) Explain any two processes for the clarification of juice.
- c) Discuss unit process and unit operation with example.

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

- a) Explain the methods for the preparation of Agarbattis and Naphthalene ball.
- b) Discuss the dry process for the manufacture of cement with flow sheet.
- c) Explain manufacture of window glass by Fourcault process.

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

- a) Differentiate between Batch process and Continuous process.
- b) Explain the manufacture of glass by tank furnace.
- c) Discuss factors governing setting of cement.
- d) Write a note on 'crystallization of sugar'.

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

- a) Explain classification of chemical reaction.
- b) Explain the manufacture of Plaster of Paris.
- c) What is cement? Give classification of cement.
- d) Explain the treatment of clinkers.
- e) Write a note on 'some special glasses'.
- f) Write a note on 'pollution control'.

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