

Total No. of Questions :4]

SEAT No. :

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[5315] - 323

T.Y.B.Sc.

CHEMISTRY

CH - 335 : Industrial Chemistry

(2013 Pattern) (Semester - III) (Paper - V)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Draw neat diagrams and flow sheet wherever necessary.*

Q1) Answer the following.

[10]

- a) Explain the term selectivity.
- b) Give two important uses of nitric acid.
- c) What is salting?
- d) Give uses of cement.
- e) What is lubricant?
- f) Define the term unit operation.
- g) What are antioxidants?
- h) What is glass?
- i) What are herbicides?
- j) Draw the structure of sulphuric acid.

P.T.O.

Q2) a) Answer any two of the following. **[6]**

- i) Explain the terms process control and quality control.
- ii) Give important uses of ammonia.
- iii) Give advantages of agrochemicals.

b) Answer the following. (any two) **[4]**

- i) Explain the terms capital investment and manufacturing cost.
- ii) Write a note on coloured glass.
- iii) What are safety precautions that should be taken in chemical process industry?

Q3) Answer any two of the following. **[10]**

- a) Explain the properties of good fuel.
- b) Discuss the manufacture of starch from corn with flowsheet.
- c) Discuss the importance of proportioning of raw material in manufacture of cement.

Q4) a) Give synthesis and applications of **[6]**

- i) DDT
- ii) Endosulphan

OR

- a) Describe the process of manufacture of nitric acid with flow sheet.

b) Define the terms ignition temperature and fire point. **[4]**

OR

- b) Discuss modern techniques of food preservation.

