

**M. TECH. –III (CHEMICAL ENGINEERING) (CBCS – 2015
COURSE) : WINTER - 2017
SUBJECT: SELF STUDY PAPER – I: SAFETY ENGINEERING IN INDUSTRIES**

Day : **Thursday**
Date : **25/01/2018**

W-2017-2981

Time: **11.00 AM TO 02.00 PM**
Max. Marks: **60**

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the sections should be written in **SEPARATE** answer books.
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SECTION – I

Q.1 Explain material handling methods in chemical process industry. **[10]**

OR

For any one chemical industry, discuss the accidental release measures.

Q.2 Explain “Plant – operation safety aspects” with appropriate example. **[10]**

OR

Explain safety check – measures in case of high pressure reactors.

Q.3 Which safety equipments are used to handle toxic gases in chemical process industry? **[10]**

OR

What are the measures to control industrial pollution?

SECTION – II

Q.4 Develop safety and health program for any one chemical process industry. **[10]**

OR

Define “Acceptable Risk” and explain.

Q.5 Discuss safety consideration in designing an pressure relief valve. **[10]**

OR

Explain selection criteria and giving of relief values.

Q.6. Write short notes on: **[10]**

- a) MSDS b) Duties of Pollution Control Board

OR

Write short notes on:

- a) Hazardous substance b) Handling of flammable materials

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