

2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
IV B.TECH II SEMESTER DEGREE EXAMINATIONS
SAFETY AND HAZARD ANALYSIS
(CHEMICAL ENGINEERING)

APRIL/MAY 2006

TIME : 3 HOUR
MARK : 80

Answer any FIVE Questions All Questions carry equal marks

1. Define safety. Explain how the safety of workers insures economic development of an industry.
2. What are problems inherent in the location and allocations of space for tankage. Explain.
3. (a) Consider an Exothermic Chemical Reaction. Obtain an Expression for Maximum Stable Temperature Differential.
(b) What are the different methods of controlling Exothermic Reactions ?
(c) List out the different Unit Operations used in Industrial Practice.
4. (a) Describe about the safety aspects considered during design of high pressure chemical reactions.
(b) Why safety aspects are to be considered during design stage?
5. Discuss about the essence of safety education ?.
6. Write about handling of flammable materials in a process industry?
7. What are the points to be considered in installing fire extinguishers in a CPI?
8. Write about Failure Mode and Effect analysis and give suitable examples.

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