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Roll No.

18F132

B.Tech. EXAMINATION, 2024

(Seventh Semester)

(C Scheme) (Main & Re-appear)

(Common for all Branches)

CHE457C

INDUSTRIAL SAFETY

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Discuss acceptable risks, accident and loss statics. 7
- (b) Explain different types of industrial process hazards. 8
2. (a) Discuss safety regulations in plants or Factories. 6
- (b) Define threshold limit values, fire triangle and dose vs. response curve. 9

Unit II

3. Explain Chemical, Toxic materials, Mechanical and biohazards in industries in detail. 15
4. Discuss storage and handling, personal safety precautions. 15

Unit III

5. (a) Discuss Risk management principles, human error analysis, economics of risk management and Check lists in industries. 10
- (b) Explain Event tree and fault tree. 5
6. Explain HAZOP (Hazard Operability studies) in industries. 15

Unit IV

7. Discuss procedure for safety auditing, audit report and safety report. 15
8. Write notes on the following :
 - (a) Emergency planning 5
 - (b) Disaster Management 5
 - (c) Safety training. 5