

24861

B.Tech. 7th Semester, (F) Scheme (Fire Tech. and Safety)

Examination, December-2018

SAFETY AND RISK MANAGEMENT

Paper- FT-401-F

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note: Students have to attempt 5 questions in total, at least one question from each section. Question No. 1 is compulsory.*

1. (a) What do you mean by Imposed Risk?  
(b) Explain the safety assurance in Design.  
(c) Discuss HAZOP  
(d) What is Gas Dispersion? 4×5=20

**Section-A**

2. Explain the following types of risk. 7,7,6
  - (a) Accepted Risk
  - (b) Perception Risk
  - (c) Qualification Risk
3. Explain in detail the Cost Benefit Analysis. 20

**Section-B**

4. Explain the principle QRA in detail and event tree analysis. 20
5. How will you investigate of an accident and what is the reporting procedure to the higher authority? 20

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**Section-C**

- 6. Explain in detail the FMEA with their methodology. 20
- 7. What do you mean by HAZOP and what is the procedure for conducting the HAZOP study? 20

**Section-D**

- 8. Explain the following term. 10,10
  - (a) Application of HAZOP to human reliability.
  - (b) Human Error Assessment Method.
- 9. What are the safety precautions to be kept in mind during the designing of the control room? 20

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