

Roll No.

24834

**B. Tech 6th Semester (Fire Tech &
Safety) Examination – May, 2018**

IDENTIFICATION & RISK ASSESSMENT

Paper : FT-308-F

Time : Three Hours] [Maximum Marks : 100

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

Note : Attempt any five questions in total. Question No. 1 is compulsory. One question must be attempt from each Section.

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| 1. (a) Explain the types of hazard. | 5 |
| (b) What do you mean by MTBF ? | 5 |
| (c) Explain the discharge rate models. | 5 |
| (d) What is ALARP ? | 5 |

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SECTION – A

2. Explain the HAZOP in detail. 20
3. What do you mean by Hazard ? Explain with their types, structure and identification. 20

SECTION – B

4. Explain the following term : 10, 10
- (a) Fault Tree Analysis
- (b) Logic Tree Analysis

5. Explain the Event Tree Analysis with their notation, constriction, advantage and disadvantage in detail. 20

SECTION – C

6. Explain the following term : 10, 10
- (a) Source Models
- (b) Dispersion Models
7. Discuss the BLEVE and also explain the Pool Fire and Jet Fire in detail. 20

SECTION – D

8. Explain the THERP and ASEP in detail. 20
9. Explain the following term : 8, 6, 6
- (a) Accepted and Imposed Risk
- (b) F-N Curve
- (c) Individual Risk and Societal Risk