

Roll No.

24861

B. Tech. 7th Semester (Fire Tech.& Safety)

Examination – December, 2016

SAFETY & RISK MANAGEMENT

Paper : FT-401-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 all, selecting at least one question from each Section. Question No. 1 is compulsory.

1. (a) What do you mean by ALARP ? $4 \times 5 = 20$
- (b) Define Risk. Explain different types of risk.
- (c) What are the main steps of computerized reporting system ?
- (d) Write the short note on Toxicity.

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P. T. O.

SECTION – A

2. Explain the following terms : 10, 10
- (a) Accepted and Imposed risk.
 - (b) Perception and Qualification of risk.
3. What do you mean by risk capability of a person and what factors are responsible to because a person capable for taking the risk. 20

SECTION – B

4. What do you mean by the following terms : 10, 10
- (a) Fault Tree Analysis.
 - (b) Event Tree Analysis.
5. What safety factors must be kept in mind during the design and operation ? 20

SECTION – C

6. Explain the FMEA in detail and what are the methodology of FMEA ? 20
7. What do you mean by the following terms ? 10, 10
- (a) Conduct a HAZOP Study.
 - (b) Extension of HAZOP.

SECTION – D

8. Explain the method of Human Error Assessment. 20
9. Explain the following terms :
- (a) Gas Dispersion. 10
 - (b) Control room Design. 10