

24761

B. Tech. FT 4th Semester F. Scheme Examination,  
May-2015

**SAFETY ENGINEERING AND MANAGEMENT**

**Paper-FT-202-F**

*Time allowed : 3 hours*      *[Maximum marks : 100]*

*Note : Section-A is compulsory. Attempt total five questions, Selecting at least one question from each unit. All questions carry equal marks.*

**Section-A**

1. Attempt all the 10 questions :      2×10=20
- What do you mean by safety management ?
  - Define term safety policy.
  - Explain the relation with safety and productivity.
  - What do you mean by typical industrial models ?
  - Define the term of incidents and severity rate.
  - What do you mean by safety sampling techniques ?
  - Explain the term of safety audits.
  - Define the term of safety surveys.
  - What do you mean by plant safety inspection ?
  - Explain the concept of accident analysis.

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**Unit-I**

- What do you mean by safety engineering and explain its need and goals in an organization.
  - Explain the role of government and voluntary agencies in safety management in an organization.
- What do you mean by safety committee and explain its types and need in an organization.  
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**Unit-II**

- Define the term of accident prevention and explain the effect of training of prevention of accident on effectiveness and productivity in an organization.
- What do you mean by housekeeping and explain the advantages of good housekeeping also describe 5s of housekeeping.
  - What do you mean by work permit ? Define its objectives and hot work permit and cold work permit in an organization.

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**Unit-III**

6. What do you mean by monitoring safety performance and explain various methods used in measurement in safety performance in an organization.
7. (a) What do you mean by cost of accidents and explain the process of computation of accidental cost in an organization ?
- (b) What do you mean by job safety analysis (JSA) and explain its importance.

**Unit-IV**

8. What do you mean by accident investigation and explain its different basis used in accident investigation in an organization and also explain its process.
9. Write short notes on :
- (a) Multi events sequencing-TOR.
- (b) Accident analytical techniques system.

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