Total Pag

Reg No.:	Name:
APJ ABDUL KALAM TECH	INOLOGICAL UNIVERSIT
SECOND SEMESTER (R) M Tech DEC	GREE EXAMINATION, OCTOBE

(7)

**Discipline: CIVIL ENGINEERING** 

Course Code & Name: 222EME106 - Industrial Safety In Engineering

Max. Marks: 60

safety?

industries?

1

2

3

4

5

6

**Duration: 2.5 Hours** 

## PART A Answer all questions. Each question carries 5 marks Marks What are the key elements and components that should be included in a company's (5)written safety policy to ensure management's commitment to personnel and plant How accidents are categorized based on severity and causation factors? (5) Explain the requirements for the proper selection, use, and maintenance of (5)personal protective equipment in various work environments? What are some of the key occupational health risks associated with modern (5)What are the factors that contribute to the occurrence of fires, both easily (5)detectable and hidden, in industrial settings? PART B

## Answer any 5 questions. Each question carries 7 marks Explain the key principles of safety management that emphasize the importance of

- safety as a management function? Explain the procedure for comprehensive accident analysis? (7)Describe the various types of mechanical equipment typically employed in (7)material handling processes?
- Elucidate how each category of physical industrial hazard poses risks to both 9 (7) workers and the overall workplace environment?
- 10 Explain the essential fire protection measures that should be implemented in (7)buildings to minimize fire-related risks.
- 11 a. Explain the fire detection methods and their significance in early fire (7)prevention
  - b. Define the concept of 'fire load' and its role in assessing fire risks within buildings and industrial settings?
- 12 How does' accident impact the economic aspects of individuals, organizations. (7)and broader society