

# 22408

**12425**

**03 Hours / 70 Marks**

Seat No. 

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answers with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Assume suitable data, if necessary.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following :** **10**
- a) Define strategic planning.
  - b) Define safety Integrity Level (SIL).
  - c) Give the names of Accident investigating agencies.
  - d) Define Accident. Give the types of accident.
  - e) Give the harmful effects of pesticides on human being.
  - f) Give the objectives of plant maintenance.
  - g) Give the need of safety organizing.
- 2. Attempt any THREE of the following :** **12**
- a) Describe the procedure of safety planning.
  - b) Explain the objectives of safety audit.
  - c) Describe the accident investigation process in detail.
  - d) Describe the safety measures taken in fertilizer industry.

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- 3. Attempt any THREE of the following :** **12**
- a) Describe the causes of Accident in Chemical Industry.
  - b) Write the salient features of Factory Act 1948.
  - c) Describe the Bhopal Industrial disaster in detail.
  - d) Differentiate between Preventive and Breakdown maintenance.
- 4. Attempt any THREE of the following :** **12**
- a) Give the objectives of strategic planning.
  - b) Explain Fault tree analysis.
  - c) Give the controlling methods for toxic chemical hazards in industry.
  - d) Describe Predictive Maintenance and give senses adopted for predictive maintenance technique.
  - e) Describe Managerial Oversight Review Technique.
- 5. Attempt any TWO of the following :** **12**
- a) Prepare accident report and describe the element of accident report.
  - b) Describe policy formulation and policy Implementation in Strategic Planning
  - c) Explain on-line maintenance of Rotameter.
- 6. Attempt any TWO of the following :** **12**
- a) Explain in detail the procedure for Hazard and Operability Study (HAZOP)
  - b) Describe the sampling technique for toxic industry.
  - c) Describe the scheduled maintenance and give the advantages of scheduled maintenance.
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