

22408

23124

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) 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 Safety Organising.
 - b) Give the objective of Strategic Planning (Any two)
 - c) Define Safety Audit.
 - d) List out type of Accident Investigation (Any two)
 - e) Define Accident.
 - f) State the important general safety measures taken in Chemical Industry (Any two)
 - g) Give the objective of Plant maintenance.

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- 2. Attempt any THREE of the following :** **12**
- a) Give the principle of Safety Organizing.
 - b) Describe effect of noise on human being. What protection to be taken for noise hazard.
 - c) Explain the procedure for Accident and Incident Analysis.
 - d) Describe the prevention methods of hazards in Insecticide Industry.
- 3. Attempt any THREE of the following :** **12**
- a) Explain the term Hazard Analysis (HAZAN) in brief.
 - b) Describe in detail breakdown maintenance. Give its advantages and disadvantages. (Any four)
 - c) Describe the causes of “Bhopal Industrial Disaster.”
 - d) Describe the steps of corrective action taken in an Accident Investigation.
- 4. Attempt any THREE of the following :** **12**
- a) Describe the role of strategic planning in safety.
 - b) Describe the Event Tree Analysis (ETA).
 - c) Explain various hazards occurs in polymer plant.
 - d) Explain predictive maintenance in detail.
 - e) Explain causes of accident in Chemical Industry.

- 5. Attempt any TWO of the following :** **12**
- a) Describe the policy formulation and policy implementation in strategic planning.
 - b) Explain factories Act 1948 with respect to :-
 - i) General Duties of Occupier.
 - ii) Approval, Licensing and registration of factories.
 - iii) Duties of the inspector.
 - c) Describe how Accident reporting and investigation is carried out in Industry.
- 6. Attempt any TWO of the following :** **12**
- a) Describe the Hazards. Explain it's type in brief.
 - b) Describe the functions and responsibilities of plant maintenance department in a industry.
 - c) Describe the preventive maintenance. State its objective and advantages.
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