

22408

23242

3 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) State the objective of Strategic Planning for safety.
 - b) Define safety planning.
 - c) Write Causes of hazards in an industry.
 - d) State losses due to accidents.
 - e) Name any two accidents investigation techniques.
 - f) List the harmful effects of pesticides on human being (any two).
 - g) Give the various types of maintenance in industry (any four).
- 2. Attempt any THREE of the following: 12**
- a) Describe the purpose and scope of Safety planning.
 - b) Explain the objective of Safety Audit.
 - c) Give the steps of corrective action taken in an accidental investigation.
 - d) List out the various precautions taken while handling hazardous chemicals in industry.

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- 3. Attempt any THREE of the following: 12**
- a) State the types of accident investigation. Describe any one of them.
 - b) Describe the online maintenance of Rotameter with neat sketch.
 - c) State the various safety measures taken in fertilizer industry.
 - d) Describe the methods of data collection and tabulating in an industrial accident.
- 4. Attempt any THREE of the following: 12**
- a) Define safety organising. Describe its need in industry.
 - b) Describe the qualitative and quantitative risk analysis.
 - c) Explain the causes and effect of Bhopal Industrial disaster.
 - d) State the functions and responsibilities of plant maintenance department.
 - e) Describe the HAZOP technique for Industrial Safety.
- 5. Attempt any TWO of the following: 12**
- a) Describe the scope and procedure of safety planning in industry.
 - b) Give the provisions under Factories Act 1948.
 - c) Explain the sampling technique for pharmaceuticals and petro-chemical industry.
- 6. Attempt any TWO of the following: 12**
- a) Describe the procedure for Safety Audit.
 - b) Differentiate between the preventive maintenance and Break down maintenance.
 - c) Explain procedure for shut down and start up of plant.
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