

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2295026

Roll No.

B.TECH

Regular Theory Examination (Odd Sem - VII) 2016-17

INDUSTRIAL SAFETY & HAZARD MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Section - A

1. Attempt all parts. All parts carry equal marks.

(10×2=20)

- Write short notes on TLV - TWA.
- Define Industrial Hygiene.
- Define Industrial Safety.
- Define cloud and mist explosion.
- What are the Risk and Hazard?
- Describe the Fire triangle.
- Define the Dow fire and Explosion index.
- What is a reliability criterion.
- What is the HAZOP Analysis?
- What degree of toxicity.

Section - B

2. Attempt any five questions from this section.

(5×10=50)

- Discuss various entry routes of a toxic material into human body and their response. What preventive measures are recommended to stop the entry?

- Explain toxicity and Threshold limiting value. Discuss various methods for the estimation of toxic vapour concentration at the work place.
- Explain safety aspects related to sit, plant layout, process development and design stages?
- Explain how to control release of hazardous materials from tanks, pipes through holes and cracks.
- Discuss about the risk analysis. Explain the risk assessment methods event tree and fault tree?
- How are flammable and toxic chemical stored? Explain the control techniques for toxic substances exposure?
- Explain the regulation and legislation, government role in the process industry.
- Explain the Bath Tub curve phenomenon. Explain the terms TOSCA and OSHA.

Section - C

Attempt any two questions from this section.

(2×15=30)

- Explain about disaster planning, management and emergency preparedness.
- With the help of neat diagram explain the working of relief valves in pressure vessel and location of relief?
- Discuss the Handling, transportation and storage of flammable liquids, gases.

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