

Q.1. Multiple Choice Questions (Choose Correct Answer)

- (1) Lye () is a strongly alkaline solution used for washing and cleaning.
(a) KOH (b) NaOH (c) AlOH (d) CaOH
- (2) As per OSHA, explosives are indicated by _____ color.
(a) Orange (b) Red (c) Yellow (d) None
- (3) The purpose of _____ is to identify the potential hazards.
(a) FMEA (b) CHA (c) HAZOP (d) "What if analysis"
- (4) Loading & unloading of materials are regulated as per _____ act.
(a) HMR (b) HRM (c) HRA (d) None
- (5) Under hazardous materials warning labels, white colour indicates _____.
(a) Explosive (b) Poison (c) Corrosive (d) Oxidizer
- (6) Under chemical hazard labels, special hazards are indicated by following color.
(a) Red (b) Blue (c) White (d) Green
- (7) Industrial establishments are made under _____.
(a) EHS (b) OSHA (c) OHSA (d) None
- (8) Coupling is type of _____ on load.
(a) Grip (b) Tip (c) Pit (d) None

Q.2. Write a Short Note on followings (Any Seven).

[14]

- (1) Classify HAZOP guidewords
- (2) Define TLV
- (3) Define: Flammable, Explosive
- (4) Define: Toxic/Poison, Corrosive
- (5) Differentiate: Accident & Tragedy
- (6) Differentiate: Hazard & Disaster
- (7) Differentiate: Security & Safety
- (8) Enlist objectives of ventilation
- (9) Section 45 of material handling

Q.3. (a) Describe physical and health hazards in detail with suitable examples.

[06]

(b) When the load may be hazardous? Discuss.

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OR**(b) Write a detailed note on SDS (Safety Devices System).**

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Q.4. (a) Describe chemical hazards in detail with suitable examples.

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(b) Write a detailed note on MSDS (Material Safety Data Sheet).

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OR**(b) Write a detailed note on HIT (Hazard Identification Techniques).**

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Q.5. (a) Justify: Housekeeping = Cleanliness + Orderliness = Safety.

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(b) Define and classify Explosion.

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OR**(b) What are the special provisions on Hazardous Processes under Factories Act, 1948? Explain.**

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Q.6. (a) Sketch Heinrich's Dominos with nomenclature.

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(b) Define Safety Audit. Add a note on its salient features.

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OR**(b) Expand terms: ALARP, ACGIH, IDLH, EAC, OHSAS, NFPA**

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