

Industrial safety management flashcard



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Examination Paper of Safety Management 5 118M Institute of Business

Management Examination Paper MM. IOO Industrial Safety Management

Section A: Objective Type (30 marks) 0 This section consists of multiple

choice & Short Notes type questions. 0 Answer all the questions. 0 Part one

carries 1 mark each & Part Two carries 5 marks each. Part One Multiple

choices is one of the weapons in the creative armory available to managers.

A. Brainstorming b. Hazard c. Phosgene d. Hazel 2. Which acid was the by-

product of caustic soda manufacturing plant? A. Folic acid b. Hydrochloric

acid .

Sulfuric acid d. Nitric acid 3. Which Step cannot be taken to isolate or block

energy? A. Block machine parts against motion that might result from

gravity. B. Disconnect or shutdown engines or motors that power mechanical

systems. C. Discharge capacitors by grounding. D. De-energize electrical

circuits by disconnecting power source from the circuit. 4. Are the outer

particles of an atom they contain a negative charge. A. Electric current b.

Electricity c. Electron d. None of these 5. This plan should provide for the

orderly and phased shutdown of an installation. A.

Off-site emergency plan b. On-site emergency plan c. Safety Plan d. Health

Plan 6. MOMS stands for:- 6 a. Material Safety Data Sheet b. Medical Safety

Data Sheet c. Material Solution Data Sheet d. Material Security Data Sheet 7.

The Exonerate is dissolved in dilute sodium hydroxide & the resulting

solution is the viscous orange liquid known as a. Spinning b. Shredding c.

Viscose d. Aging 8. Is used as a temporary care measure to provide the

circulation of some oxygenated blood to the brain. A. CPRM b. SEC c. NECK d.

CUFF 9. The SSL of a wire rope can be calculated by dividing . . 10. Which

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gas is not used for the purpose of ventilation? A. Carbon-did-oxide b. Oxygen
c. Nitrogen d. Hydrogen Part Two 1 . Describe the safety precautions in
storing gas cylinders. 2. Write the advantages and disadvantages of ' Electric
Forks'. 3. Explain the overview of the ' Employer Safety Program'? 4. What
are the stages of ' Brainstorming'? 7 Section B: Case lets (40 marks) 0 This
section consists of Case lets. 0 Answer all the questions. 0 Each Case let
carries 20 marks. 0 Detailed information should form the part of your answer
(Word limit 150-200 rods).

Case let 1 Oxygen Cylinder- A Potential Explosion Hazard In an open area
outside a mechanical workshop, a welder was cutting some steel plates with
an ox-acetylene gas cutter. The oxygen cylinder was about to get empty so,
he decided to replace it with a filled one. He unscrewed the regulator from
the empty cylinder and installed it on the new full cylinder. When he opened
up the cylinder valve, he noticed a leak at the union connection between the
cylinder and the regulator. He therefore turned off the cylinder valve,
unscrewed the union and examined the gasket.

He found that there were two gaskets instead of one, which ought to be the
case. So, he removed one of the gaskets. He then screwed up the union
again and turned on the cylinder valve. The moment he turned on the
cylinder, there was an explosion in the regulator followed by fire. A Jet of
flame emerged from the back of the regulator and continued until the
cylinder valve was shut off. A large portion of the regulator melted and
burned during the incident. There was no injury to anyone. The welder
remained alert to save himself. Surveillance Findings 1 .

An examination of the regulator revealed that there was some grease in the ball bearing in the front housing. 2. The explosion actually occurred in the rear high- pressure section and the grease was found in the front housing of the regulator. 3. It is concluded from both the above findings that: 0 An inexperienced person had overhauled the regulator. 0 There had been, in all probability, grease in the rear section too. 0 Grease or oil in the smallest quantity is sufficient enough for oxygen to have caused an explosion.

Question 1 .