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Question Paper Code: 49211

M.E. DEGREE EXAMINATION, MAY 2015.

Elective

CAD/CAM

14PCD507 – INDUSTRIAL SAFETY MANAGEMENT

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (5 x 1 = 5 Marks)

- Number of employees in a safety committee is
 - 1
 - 2
 - Equal with employers
 - 4
- What is the cause of boiler explosion in the following?
 - High water content
 - Low water content
 - Relief valve starts to discharge earlier
 - Low heat input
- The lowest voltage that will not create electrocution for human being is
 - 6V
 - 12V
 - 18V
 - 24V
- The suitable type of gloves during electrical maintenance is
 - Chain glove
 - Rubber glove
 - Disposable glove
 - Reflective glove
- Safety distance between two pressure vessels is specified in SMPV rules based on
 - Diameter of the vessel
 - Climatic condition
 - Quantity of stored chemical
 - Properties of stored chemical

PART - B (5 x 3 = 15 Marks)

6. List out any three functions of safety officer.
7. What are the hazards involved in painting operation?
8. List out few equipment to control air pollution in Industries.
9. What is the principle of operation of carbon dioxide fire extinguisher?
10. List some safety & health standards formulated internationally.

PART - C (5 x 16 = 80 Marks)

11. (a) Explain the various steps taken by the management to develop safety culture in an industry. (16)

Or

- (b) Explain in detail each step to be followed in safety audit. (16)

12. (a) Explain how pressure vessel can be protected from explosion. (16)

Or

- (b) List out various safety measures to be taken in machine shop. (16)

13. (a) What is meant by on site and off site emergencies? Explain in detail. (16)

Or

- (b) Illustrate various firefighting equipment to extinguish industrial fire in detail. (16)

14. (a) Write the various elements of accident cost. (16)

Or

- (b) With neat sketch, list out various personal protective equipment requirement for different hazardous situations in an industry. (16)

15. (a) Write the salient features prescribed in Indian boiler act. (16)

Or

- (b) As per factories act, what are the welfare measures provided to the employees? (16)