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Roll No ..

FT - 704

B.E. VII Semester

Examination, December 2015

Safety Engineering and its Industrial Application

Time: Three Hours

Maximum Marks: 70

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PTO

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- 1. a) Explain unsafe conditions with examples.
 - b) Write short note on safety policy.
 - Describe frequency rate and severity rate for monitoring safety performance.
 - d) Describe the hazards and their control measures in material handling work.

OF

Write summary on principles of accident Causation.

Unit - II

- a) Explain respiratory personal protective equipments.
- b) How will you manage safety in a confined space where toxic and inflammable gas is suspected?
- c) Explain Local exhaust ventilation and its utility.
- d) Describe methodology of inspection of a factory.

Describe the possible hazards which are possible on ignoring the principles of ergonomics.

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Unit - III

- 3. a) How will you control hazards due to exposure of excessive hear?
 - Describe role of management in accident prevention in factories.
 - c) How a production supervisor can be helpful in accident prevention?
 - d) Describe safety measures for lift and E.O.T. crane.

OF

How can you prevent accidents while operating various of types of machines?

Unit - IV

- 4. a) Advise safety measures for industries using corrosive liquids. http://www.rgpvonline.com
 - b) Write short note on "On Site Emergency Plan".
 - c) How will you manage safety in hazardous process industry?
 - d) Describe hazards and their control measures for industries using flammable compressed gases.

OR

Differentiate between a normal inspection and a safety audit.

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Unit - V

- 5. a) How will you control hazards in industry using refractory materials?
 - b) Describe the hazards in a viscose rayon industry.
 - c) Describe safety measures for a solvent extraction plant.
 - d) Describe control measures for hazards in LPG bottling plant.

OR

Describe measures for accident prevention in a fertilizer industry.

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