

**POST GRADUATE DIPLOMA IN FIRE SAFETY
AND DISASTER MANAGEMENT
(PGDFSTYDM)**

Term-End Examination

December, 2013

MSE-011 : INDUSTRIAL SAFETY

Time : 3 hours

Maximum Marks : 100

Note : Q. No. 1 is compulsory. Answer any three questions of section-B carry '20' marks each.

SECTION-A

1. Give short answers : 2x10=20

- (a) (i) Classify accidents with brief of each category.
- (ii) Describe Henrich theory and write all four theories of accidents.
- (iii) Explain 5Es of accident prevention.
- (iv) Why housekeeping improve safety in industries ?
- (v) For work permit system "WPS" Job Safety Analysis is required why ? Explain with examples.
- (vi) Give a short report for use of P.P.E. with Non-Respiratory system.
- (vii) Class 'B' Fuel as per petroleum Act.
- (viii) What is ABC of First Aid ?

- (ix) Carbon mono-oxide poisoning.
- (x) Evacuation plan

(b) Fill in the blank : **10x2=20**

- (i) Maximum quarts of class. B fuel, which can be stored without License is _____ liters.
- (ii) Burn percentage for human face is _____%.
- (iii) Physiological Hazard with carbon di-oxide inhalation is _____ .
- (iv) An contain _____ % nitrogen.
- (v) Halons have been banned due to _____ .
- (vi) Simple fraction means the bone has _____ crack.
- (vii) Evacuation time for class 'B' (Type II) construction building is _____ minutes.
- (viii) Radio-active material fall in category _____ of dangerous goods.
- (ix) Emulsification of chemical spilled over a large are implies _____ of chemical risk.
- (x) Maximum range for laser beam detector is _____ meters.

SECTION-B

(Write any 3 questions out of 5 questions). **3x20=60**

2. What are the fire and safety measures for confined spaces ?
3. What are safety managerial process for PSM, Discuss the '14' elements ?

4. What are the types of hazardous chemicals ?
Write about
LC 50, LD 50, STEL, MAC, TLV
 5. As a safety personal write about Industrial psychology to develop the safety aspects.
 6. What are the five prevention required for H.W.P ? (Hot Work Permit)
 - (a) Arc welding
 - (b) Gas welding
 - (c) Sand and shot blasting
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