

00951

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

Term-End Examination

December, 2013

**MSEE-003 : INDUSTRIAL HYDROCARBON AND
CHEMICALS**

Time : 3 hours

Maximum Marks : 100

SECTION- A

Each Carry 2 Marks

1. Write **true** or **false** against each statement : **2x5=10**
- (a) Over 75% of normal hydrogen at room temperature is orthohydrogen.
 - (b) The chemical structure of propane is C_3H_{10} .
 - (c) Hydrogen is not toxic.
 - (d) CO becomes a health hazard, when it exceeds 25 molar PPM/8 hours.
 - (e) Do not follow 'MSDS' always in chemical process.

SECTION- B

2. (Answer **any five**) Each carry **ten** marks : **5x10=50**
- (a) What do you mean by oxidation ?
 - (b) Write about permanganates.
 - (c) Describe the inorganic peroxides
 - (d) What are the groups of unsaturated hydrocarbon ? Write about it.
 - (e) What are the categories of chemicals ?
 - (f) Write about nitric acid and inorganic nitrates.

SECTION - C

Answer **any two** of the following. (Each cover 20 marks) **2x20=40**

3. Describe the fire prevention for carbonaceous solid and reactive solid.
 4. What are the safety for organic oxidizing agents ?
 5. Write about combustible aliphatics.
 6. What are the natures of Ketones, Carboxylic, Easters, and Eathers ?
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