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Post Graduate Diploma in Fire Safety and Disaster Management (PGDFSTYDM)

Term-End Examination June, 2012

MSEE-003: INDUSTRIAL HYDROCARBON AND CHEMICALS

Maximum Marks: 100 Time: 3 hours Q.No 1 to 5 is compulsory. (i) Note: Marks for each question are given against each. (ii) Hydrocarbon burning with less supply of 1. (a) oxygen produces: 2x5 = 10Carbon dioxide and carbon monoxide (i) (ii) Carbon Dioxide (iii) Carbon monoxide Neither carbon dioxide nor carbon (iv) monoxide. Hydrocarbons are: (b) (i) Highly flammable (ii) Can be explosive Many are toxic and can be absorbed (iii) through the skin or lungs All above (iv)

- (c) Materials that contain dangerous bacteria or viruses or the toxins these organisms produce are called
 - (i) Infectious material
 - (ii) Flammable material
 - (iii) Explosives material
 - (iv) Protective material
- (d) BLEVE stands for:
 - (i) Boiling Liquid Expanding Vapour Explosion
 - (ii) Better Labour Efficiency Via Energy
 - (iii) Boosting Low Energy Vitamin
 Enzyme
 - (iv) Bombay Level Extinguisher Variance
 Estimate
- (e) Before choosing to fight a fire, which of the following questions should you ask?
 - (i) Am I safe from toxic smoke and gases?
 - (ii) Do I have an escape route?
 - (iii) Do I have the right extinguisher?
 - (iv) All of the above
- 2. Short questions: All Compulsory 6x5=30
 - (a) What do you understand by Saturated Hydrocarbon?
 - (b) Define in brief the means of storage of hydrocarbon.

- (c) What is the use of thermal imaging camera during a fire fighting operation?
- (d) How you will define the Chemical explosion?
- (e) What do you mean by classification of fire?

Descriptive questions. Attempt *any three* from following: 20x3=60

- **3.** Define different usages of Hydrocarbons.
- **4.** Explain Fire Fighting strategy in large fuel Depot, use of PPE and emergency evacuation.
- **5.** What special measures and precautions are associated with hazardous substances?
- **6.** Write briefly on Petroleum Hydrocarbon gases. Classification and hazard analysis.
- **7.** Give an overview on chemical accident prevention provisions.