DIPLOMA IN FIRE SAFETY MANAGEMENT (DFSTYM)

Term-End Examination

June, 2012

BSE-041 : BASIC OF FIRE AND FIRE SCIENCE

Time : 3 hours   Maximum Marks : 75

Note : Attempt all questions.

5x1.5=7.5

1. Write *True* or *False* against each statement :

    (a) Metals can expand on application of heat .

    (b) ABC type DCP fire extinguishers cannot be used on class 'A' fire.

    (c) Horse Power is a unit of weight.

    (d) 100°C is equal to 373K.

    (e) Complete combustion is not possible in defusing flame.

2. Fill in the blanks :   5x1.5=7.5

    (a) Units of force is _____.

    (b) Heat is evolved in the _____ reactions.

    (c) LPG stand for _____.

    (d) Chemical formula of Propane is _____.

    (e) Extinguishing fire by controlling fuel supply is called _____.

3. Write short note on *any six* : 6x6=36

   (a) Auto Ignition Temperature.

   (b) Sublimation.

   (c) Calorific Value.

   (d) Signatures of fire.

   (e) Earthing.

   (f) Bulb type sprinkler head.

   (g) Positive Pressure Ventilation.

   (h) Combustion.

   (i) Limits of Flamability.

4. Answer *any two* of the followings : 2x12=24

   (a) Define the radio active isotopes and write the properties of Alfa, Beta, Gamma.

   (b) Define the Ohm's Law and Three resistances of 3Ω, 4Ω and 6Ω are connected in parallel across 12 volts supply. Calculate the power of circuit.

   (c) Write the physical & chemical properties of LPG.

   (d) Write the classification of fires.