

**DIPLOMA IN FIRE SAFETY MANAGEMENT
(DFSTYM)**

Term-End Examination

June, 2013

BSE-041 : BASIC OF FIRE AND FIRE SCIENCE

Time : 3 hours

Maximum Marks : 75

Note : Attempt all the questions.

1. Write *True* or *False* against each statement : $5 \times 1.5 = 7.5$

- (a) We can extinguish the metal fire with petrol.
- (b) Jet reaction is a force.
- (c) Atomic mass of atom is equal to the sum of no. of protons and no. of neutrons.
- (d) Latent heat of fusion of water is 80 Cal/gm.
- (e) Chemical formula of Methane is CH_8 .

2. Fill in the blanks :

$5 \times 1.5 = 7.5$

- (a) CO_2 is _____ than air.
- (b) The units of electric current is _____.
- (c) Flash point of petrol is _____ $^\circ\text{C}$
- (d) Solid substances having definite _____ and _____.
- (e) Specific gravity of water is one at _____ $^\circ\text{C}$ only.

3. Write short notes on *any six* :

6x6=36

- (a) Flash point
- (b) Calory
- (c) Specific heat capacity
- (d) Bonding
- (e) Types of flames
- (f) Fire load
- (g) Fuse
- (h) Force
- (i) Dust explosion

4. Answer *any two* of the following :

2x12=24

- (a) Explain the principle methods of fire extinguishment.
 - (b) With the help of neat diagram explain the stages of fire growth.
 - (c) Define the temperature and explain the mode of heat transfer.
 - (d) What are the common causes of electrical fire ?
-