

00240

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

Term-End Examination

June, 2013

MSE-009 : FIRE SERVICE OPERATION

Time : 3 hours

Maximum Marks : 100

SECTION - A

Attempt *all five* questions. Each carry 2 marks.

Tick the correct answer.

2x5=10

1. Which of the following is the latent heat of vapourisation of water ?
(a) 590°C (b) 560°C
(c) 540°C (d) 530°C

2. Which of the following knots is used to join two lengths of lines of equal diameter ?
(a) Single Seat Bend
(b) Thumb Knot
(c) Bowline on Bight
(d) Reef Knot

3. Which of the following Adoptors is used in close circuit relay ?
- (a) Delivery Female to Female adoptor
 - (b) Delivery Male to Male adoptor
 - (c) Suction inlet adoptor
 - (d) Suction male to Delivery Female adoptor.
4. As per Gas Cylinder Role, what should be the colour of an oxygen cylinder :
- (a) Maroon
 - (b) Yellow
 - (c) Gray
 - (d) Black
5. What is the maximum lifting capacity of a centrifugal pump from open water source ?
- (a) 24 feet
 - (b) 34 feet
 - (c) 40 feet
 - (d) 45 feet

SECTION-B

Attempt *any five* questions . Each question carry
10 marks.

5x10=50

1. Discuss the various outfits of a heavy duty water Bouser with Fire Pump.
2. Explain the Role of P.T.O in water Bouser and Provisions made for its maintenance.
3. What safety precautions are to be adopted to Pitch a Hydraulic Platform (Ladder) at Fire ground scenario ?
4. Explain the Fire Fighting Technique and Procedures of Rescue operation using Hydraulic Platform.
5. What is Priming ? How the atmospheric pressure plays vital role in priming ? Explain the method of Operation of Exhaust Ejector Priming system.
6. Discuss the causes of failure in priming a centrifugal pump.
7. Enumerate requirement of modern Fire Control room of a Metrocity Fire Service HQ with respect to computer aided command, control and mobilizing systems using network.

SECTION - C

Attempt *any two* questions. Each carries 20 marks.

2x20=40

1. What are different type of suits used by Fire Fighters for Personal Protection ? Explain each type giving the constructional detail.

 2. Write short notes on :
 - (a) P. A. system
 - (b) Flash over
 - (c) Fire lift
 - (d) Vortex

 3. Discuss the safe method of pitching an extension Ladder and Climbing up the ladder to rescue a casualty by fireman lift.

 4. Discuss various uses of an extension ladder at Fire Ground Operation.
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