

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

Term-End Examination

June, 2012

**BSE-045 : PUMP OPERATION AND
DISTRIBUTION OF WATER**

Time : 3 hours

Maximum Marks : 75

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- (i) *Please draw drawings which will fetch you more marks.*
(ii) *Attempt all questions. Please write neatly.*
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GROUP - A

1. Fill in the blanks : **5x2=10**
- (a) Centrifugal pump works on _____ principle.
- (b) Ejector primer works on _____ principle.
- (c) In water relay system , the strongest pump is place at _____ .
- (d) Fire pump controller controls _____ .
- (e) Over head tank water supply need _____ pumping system.

GROUP - B

2. Select the right answer :

5x2=10

- (a) The most accepted pump in fire service is -
- (i) Ejector Pump
 - (ii) Reciprocating Pump
 - (iii) Centrifugal Pump
- (b) The centrifugal pump requires :
- (i) Priming system
 - (ii) Does not require priming system
 - (iii) May or may not require priming system
- (c) Crash Tender -
- (i) Can fight fire and move also
 - (ii) Cannot fight fire during move
 - (iii) Can only move
- (d) Emergency Tender -
- (i) Can fight fire
 - (ii) Can fight fire and tackle emergency
 - (iii) Can tackle only emergency situation
- (e) Over Head Water Tank -
- (i) Are more reliable than underground water tank
 - (ii) Are less reliable than underground water tank
 - (iii) Same reliable as underground water tank

GROUP - C

3. Write short notes on *any seven* :

7x5=35

- (a) Emergency tender
- (b) Advantage and disadvantage of centrifugal pump
- (c) Water Ring Primer
- (d) Close circuit water relay system
- (e) Foam Tender
- (f) Underground water storage tank
- (g) Over head water storage tank
- (h) Ejector primer
- (i) Reliable power supply for fire pump

GROUP - D

4. Answer *any two* :

2x10=20

- (a) Explain in detail the working of a centrifugal pump with the help of neat diagram.
 - (b) Explain in detail about open circuit water relay system with diagram.
 - (c) Explain in detail about working of an ejector pump giving neat diagram.
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