DIPLOMA IN FIRE SAFETY MANAGEMENT (DFSTYM)

Term-End Examination

June, 2013   00022

BSE-045 : PUMP OPERATION AND DISTRIBUTION OF WATER

Time : 3 hours   *Maximum Marks : 75*

Note :   *Support with sketches wherever applicable.*

Attempt **all** *questions.*

GROUP-A

1.   Tick on the right answers :   5x2=10

   (a)   Crash Tenders are commonly used at :

   (i)   Sea Ports

   (ii)   State Fire Services

   (iii)   Airports

   (b)   Double stage centrifugal pump gives :

   (i)   Less pressure

   (ii)   More pressure

   (iii)   Equal pressure than the single stage centrifugal pump.

(c) Water Relay is commonly required for :

    (i)   To carry huge quantity of water.

    (ii)   To carry water from distance.

    (iii) To save manpower.

(d) Diesel engine driven Fire Pumps are :

    (i)   More reliable source of water supply.

    (ii)   Less reliable source of water supply than electrically driver pump.

    (iii) Equally reliable source of water supply than electrically driven pump.

(e) Water Tenders are generally used :

    (i)   To fight "A" class fire.

    (ii)   To fight "B" class fire.

    (iii) To fight electrical equipment fire.

GROUP-B

2. Fill in the blanks : 5x2=10

   (a) Ejector pump works on _____ principle.

   (b) Reciprocating pump require _____ maintenance.

   (c) In Water Relay System, the weakest pump is place at _____.

   (d) Under ground water tank may require _____ system.

   (e) Water Tender requires _____ system to throw water.

GROUP-C

3. Write short notes on *any seven* :   7x5=35
   - (a) Foam Tender
   - (b) Centrifugal Pump
   - (c) Open Circuit Water Relay System
   - (d) Ejector Primer
   - (e) Over Head Water Storage Tank
   - (f) Water Tender
   - (g) Power Take-off system in Fire Tender
   - (h) Rescue Equipments in Emergency Tender.
   - (i) Reciprocating Primers.

GROUP-D

4. Answer *any two* :   **2x10=20**

(a) Explain in detail the working of a Water Ring Primer with neat diagram.

(b) Give the list of emergency items normally stored in an Emergency Tender.

(c) What are the points to be considered for a reliable water supply system for fire fighting ?

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