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DIPLOMA IN FIRE SAFETY

Term-End Examination

June, 2010

BSEI-032 : PRACTICAL FIREMANSHIP

Time : 3 hours

Maximum Marks : 100

Note : (i) *All questions are compulsory except optional parts of Q.No. - 2 and 3.*

(ii) *No answer will be repeated again.*

PART-A

1. **Right or wrong one mark each. 10x1=10**
- (a) The fireman should be mentlay alert during duty. ()
 - (b) Put on B.A. set while working in smoke filled areas is not a good practice. ()
 - (c) Put on water jets directly on heated metal causes accidents.()
 - (d) Crack in walls, spelling of stone work is an example of building collapse. ()
 - (e) Water + Foam concentrate + Air = Foam solution (Chemical Foam). ()

- (f) Full form of A.F.F.F. is Aquous Film Forming Foam. ()
- (g) Pre value of foam is between 6 to 8.5. ()
- (h) Alcohol Resistant foam is used for extinguish oil fires ()
- (i) FB – 10 X branch is used for high expansion foam. ()
- (j) Dam lorries are used for water relaying purposes ()

PART-B

Fill in the blanks :

8x1=8

1. (a) In closed circuit relay water dam is done away with and the water from the supply pump is fed straight to the second pump, through a _____ where from it is fed to the third pump.
- (b) Water carrying capacity of water carriers is up to _____ litres.
- (c) In water relay distance between pumps with single 70 mm Non - percolating hose is _____ mtrs.
- (d) Proper ramping of _____ should be done to all road crossing.
- (e) The dia of standard male couplings is _____ m.m.

- (f) The term _____ is used of Fire Hydrant.
- (g) The measurement of flow of water is measured by _____ .
- (h) The value of H is _____ P.

PART-C

Match the following :

10x1=10

1. (a) Fire call (i) Control Room
(b) Hose Card (ii) Mechanical Foam
(c) Smoke area (iii) Foam Branch
(d) A.F.F.F. (iv) Primer
(e) FB - 5x (v) Fire Services Duty
(f) Pump (vi) B.A. set
(g) Lift pump (vii) Hydrant
(h) Duck Foot Bend (viii) Water Relay
(i) Compensator (ix) Salvage Equipment Plug
(j) Scoops (x) Flow Gauge

2. Short answer type 7 out of 10 will be attempted. 7x6=42
- (a) What are the qualification requirements of a fire service IN - Charge ?
- (b) Write down the duties of fireman at station level.
- (c) What are the signs of building collapse and what are the methods of entry ?

- (d) Define about the chemical foam and mechanical foam ?
- (e) Write a short note on foam concentrates ?
- (f) Brief on storage of foam concentrates.
- (g) What are the qualities and specifications of foam ?
- (h) Define the different types of water relay system.
- (i) Write a short note on Water Lorry.
- (j) Clarify the operational method of Hydrants.

3. Long answer type 3 out of 5 will be attempted. $3 \times 10 = 30$

- (a) The capacity of a water tank is 180,0000 litres. A fire tender collected water from this tank at the rate of 3600 L.P.M. How much time will be taken for emptying the water tank ? Time will be given in minutes.
- (b) Define the terms :
 - (i) Pressure and flow
 - (ii) Pressure and Head
- (c) How a person can be rescued being caught in electric wires ?
- (d) What are the practical hints of fire fighting at fire ground ?
- (e) Define the different types of hydrants and their principle features.