

00772

DIPLOMA IN SAFETY

Term-End Examination

June, 2010

**BSEI-028 : FIRE EMERGENCY PREVENTION,
RULES, REGULATION AND BY LAWS**

Time : 3 hours

Maximum Marks : 100

*Note : (i) All questions are compulsory except optional Part
of Question No. 2 and 3.*

(ii) No Answer will be repeated again.

PART-A

18x1=18

1. *Fill in the blanks :*

- (a) Safety of the firemen are very important while they go near the _____ .
- (b) Cotton hand gloves are used as a _____ equipment.
- (c) All protective garments must meet the standards of _____ and I.S.I marks.
- (d) Gloves are designed to protect the _____ and wrists from injuries.
- (e) Effective salvage is a _____ process and involves a wide range of activities and considerations.

- (f) Fireman can give basic assistance _____ salvage by undertaking their duties.
- (g) Fire salvage has one basic aim, to minimizing of _____ consequent upon outbreaks of the fire.
- (h) Salvage equipments should primarily be used to _____ water and smoke damage.
- (i) The volume of _____ prevents the firemen from rapid attack on fire.
- (j) The smoke and the fumes might be carried through out the building, via _____ ducts.
- (k) Passive Fire Protection is an integral component of the three components of _____ fire protection and fire safety in a building.
- (l) Active Fire Protection, which can include _____ or automatic fire detection and fire suppression.
- (m) Fire Prevention includes _____ ignition sources.
- (n) Intermescent fire proofing is a layer of _____ which is applied along with the coating system on the structural steel members.

- (o) Fire resistance glass is optically clear, and can be used in _____ min. and _____ min. fire rating capacity.
- (p) Fresh air intakes should be protected with approved automatic fire doors or _____ in air conditioning unit.
- (q) _____ stage is flow of the liquid refrigerant at high pressure and normal temperature is controlled by a controlling valve.
- (r) The gas from the coils in the refrigerating rooms is drawn into the _____ and discharged at a high pressure from 125 to 170 lbs.

PART-B

1. Match the following table : 10x1=10

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|----------------------|------------------------------------|
| (a) Dust Mask | (i) Salvage Equipment |
| (b) Rain Coat | (ii) Passive Fire Protection |
| (c) Drain Rods | (iii) Dry Film Thickness |
| (d) P.F.P. | (iv) Water Protection |
| (e) D.F.T. | (v) Personal Protective Equipments |
| (f) Fire Dampers | (vi) Refrigeration |
| (g) Condensing stage | (vii) Refrigerants |
| (h) Methyl Chloride | (viii) B.A. Sets |
| (i) Sprinkler | (ix) Air Duct |
| (j) Warning Whistle | (x) Fire Extinguishing System |

2. Short Answer Type Questions 7 out of 10 to be attempted : 7x6=42

- (a) Write a brief note on P.P.E.
- (b) Write a short note on care for P.P.Es.
- (c) Define importance of salvage work during fire.
- (d) What are the procedures of salvage on ground ?

- (e) What are the Phases and Aim of salvage work ?
- (f) What is Ventilation ? Define briefly.
- (g) Give a brief note on types of air conditioning system.
- (h) What are the basic laws of refrigeration ?
- (i) What is B.A. set ? Define one of the type of B.A. sets ?
- (j) What are the uses of B.A. set in fire services ?

3. Long Answer Type Questions 3 out of 5 to be attempted : **3x10=30**

- (a) What is P.P.E. ? Explain in detail with examples.
- (b) What is salvage ? What are the procedures of salvage ? Give e.gs. of tools used for salvage work.
- (c) What are the main characteristics of passive fire protection ?
- (d) What are the common refrigerants and their characteristics ?
- (e) What are the constructional features and exit requirements of a building ?