11C-102

May-2015

B.Sc., Sem.-II (Fire & Safety)

CC-204 : Search & Rescue Techniques and Paramedics

Time : 3 Hours]   **[Max. Marks : 70**

1. (a) Give an introduction to search techniques and describe method of searching a room with the help of a diagram. **7**

   OR

   Write short notes on any **three** :
   (1) Primary search
   (2) Secondary search
   (3) Factors while searching
   (4) Secondary escape route

   (b) Describe dragging method of rescue and explain, 2 handed, 3 handed & 4 handed seat. **7**

   OR

   Names of types of ladders used in fire services & explain in details aluminium extension ladder.

2. (a) What is confined space and why it is considered hazardous. **7**

   OR

   What is LEL, UEL and flammability range and describe effects of reduced oxygen.

   (b) Give a complete list of equipments needed for vessel entry and also a list of air monitoring equipments. Give a complete description of SCBA. **7**

   OR

   What do you understand by ventilation ? Why it is necessary to do ventilation and how ventilation can be done ?

3. (a) How would you control and provide rescue in case of highway road accident ? **7**

   OR

   Describe step by step procedure of rescue from high rise building.

(b) What are the causes of building collapse and precautions while rescue from such buildings ? **7**

OR

How will you make an entry into vehicle involved in road accident and type of injury depends on which factors ?

4. (a) Describe frame work of human body and give names of vital organs of body. **7**

OR

What is first aid, its principle, responsibility of first aider and diagnosis of casualty ?

(b) Give names of wounds and their first aid treatment. **7**

OR

Define seven steps of C P R and give complete procedure of mouth to mouth resuscitation. What are the other methods of artificial respiration ?

5. Short questions. Do as directed. Each carries one mark. **14**

(a) _____ & _____ are almost performed together.

(b) A quick attempt to locate a person is called   (Primary / secondary, search)

(c) This is not a factor while searching   (sight sound feel treat)

(d) In case of pick-a-back, how many firemen are required   (1/2/3/4)

(e) In case of fore and aft method how many fireman are required ? (1/2/3//4)

(f) In case of rescue from high rise building how many minimum firemen required ? (1/2/3/4)

(g) Guy rope must be used while lowering from height more than _____
(6 mtr, 8 mtr, 10) mtr 12 mtr

(h) In case of dragging through staircase which you feel is incorrect ?
(Hands tied, body on its back, body is supported by waist, down head first)

(i) The maximum reach of extension ladder is
(10.5 mtrs, 11.0 mtrs,   11.5 mtrs,   12 mtrs)

(j) Which is not the quality of rescuer ?
(Ability   common sense   improper judgement   improvisation)

(k) A confined space should have
(Entry & exit restricted, large enough, not designed for continuous work, all)

(l) In cutting set the pressure of Oxygen cylinder is approximately
(120 bar,   130 bar,   135 bar,   200 bar)

(m) In cutting set the pressure of acetylene cylinder is approximately
(10 bar,   15 bar,   20 bar,   25 bar)

(n) Which rule is applied to calculate body burn _____
(rule 8, rule 9, rule 10, rule 11)

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