

Seat No. : _____

XR-121

April-2013

B.Sc. Sem. II (FIRE AND SAFETY)

Search & Rescue Techniques and Paramedics

Time : 3 Hours]

[Max. Marks : 70

1. (A) What is primary duty of a fireman and how many types of rescue techniques are adopted by Fireman ? What is the difference between search and rescue ? **7**

OR

- (A) Write short notes on any **three** : **7**

- (a) Primary search
- (b) Secondary search
- (c) Factors while searching
- (d) Secondary escape route
- (e) Shelter in place
- (f) Exit assist

- (B) Give a write up on rescue using fire services equipment and names of different types of ladder. **7**

OR

- (B) Write short notes on any **three** : **7**

- (a) Rescue technique
- (b) Lowering by a line
- (c) Fireman's lift
- (d) Factors influencing search and rescue

2. (A) What are the physical hazards in confined space, can a non permit required confined space Become permit required confined space under what circumstances ? **7**

OR

- (A) Write short notes on any **three** : 7
- (a) Confined space entry requirement
 - (b) Confined space program
 - (c) Role of stand by fireman
 - (d) Confined space supervisor

- (B) What do you understand by confined space entry permit, types of permits, list of equipments needed at confined space entry & air monitoring equipments with its uses. 7

OR

- (B) Explain in details SCBA Set, main parts, working and its application. 7

3. (A) Describe step by step how to carryout rescue from high rise buildings using chair knot. 7

OR

- (A) What are the main cause of collapse of a building, signs of collapse and precautions taken. 7

- (B) Write short notes on any **three** : 7
- (a) Tripod
 - (b) Quad pod
 - (c) Harness
 - (d) PASS
 - (e) Wristler

OR

- (B) As a rescuer how will you manage a road accident, make entry in to vehicle, and depend on type of injuries ? 7

4. (A) Define First aid and give its principal and treatment. 7

OR

- (A) Give the detail of types of Fractures and its treatment. 7

(B) Give the effect of Electric shock and electric burns. 7

OR

(B) Describe the classification of burns. 7

5. Each question **one** mark : 14

(1) In this case two firemen face each other & patient is in middle

- (a) Two handed seat (b) Fireman's lift
(c) Dragging (d) Fore and aft method

(2) Chlorine is heavier than air. YES/NO

(3) Carbon mono oxide is flammable and toxic (Right/Wrong)

(4) Full form of P.T.O. _____.

(5) A 6 litre water capacity B. A set cylinder at 200 bar will contain _____ litres of air.

(6) Full form of MSDS _____.

(7) In a BA set pressure is reduced in how many stages. 2/3/4

(8) What is ABC ?

(9) Give any three benefits of bandages.

(10) Give any five names of parts of skeleton.

(11) What is Aim of First Aid ?

(12) Give the name of types of Fracture.

(13) Give the parts of skull in human body.

(14) Give the name of types of Wounds.
