

Seat No. : _____

XP-108

B.Sc. (Fire & Safety) (Sem.2)

April-2013

Fire Fighting Equipments

Time : 3 Hours]

[Max. Marks : 70

1. (A) What is Fire fighting system ? Explain powder based fire fighting systems. 7

OR

Define Fire Extinguisher. Explain DCP type extinguisher with figure.

- (B) Explain Active and Passive fire fighting systems. Draw diagram. 7

OR

Draw diagram of foam type Fire extinguisher and explain in brief.

2. (A) What is Hose Reel Hose ? Explain Hose Reel Hose, give IS code, Name of parts of Hose Reel Hose and material of construction. 7

OR

Define delivery Hose. Give IS code and classification of delivery hose and define each.

- (B) Draw diagram and explain following branches : 7

- (1) London pattern.
(2) Revolving branch.

OR

Draw diagram and explain following hose fittings :

- (1) Male to Male adaptor.
(2) Strainer.

3. (A) How we can choose valve for the Fire fighting systems ? List out valve selection considerations for selecting valves. 7

OR

What is Non return valve ? Explain in detail.

- (B) List out function of valves and give classification of valves. 7

OR

Explain butterfly valve with advantages and disadvantages.

4. (A) List out points to be consider for maintenance of Ladder. 7
- OR**
- What is use of Ladder in fire service ? Classify ladder and draw hook ladder.
- (B) What is SCBA ? List out types of breathing apparatus set and draw open circuit breathing apparatus set. 7
- OR**
- What is Distress signal unit ? What is its function. Explain in brief.
5. Write correct answer of following Question : 14
- (1) _____ is the code of chemical foam fire extinguisher.

| | |
|-----------|----------|
| (a) 940 | (b) 934 |
| (c) 10204 | (d) 2171 |
 - (2) _____ is an example of semi-fix fire fighting system from following.

| | |
|-----------------------|------------------------|
| (a) Hydrant system | (b) Sprinkler system |
| (c) Fire Extinguisher | (d) Foam Pourer system |
 - (3) Why soda acid is not used now a day ?

| | |
|---------------------------------|--------------------------------|
| (a) It is not effective on fire | (b) Corrosion on cylinder body |
| (c) (a) and (b) both | (d) None of them |
 - (4) What is the length of siphon tube ?

| | |
|---------------|---------------|
| (a) 18 inches | (b) 81 inches |
| (c) 8 inches | (d) 1 inch |
 - (5) IS code of landing valve is _____.

| | |
|----------|----------|
| (a) 2905 | (b) 9250 |
| (c) 5290 | (d) 2095 |
 - (6) What is blank cap ? Where it is used ?
 - (7) What is the full form of ARV ?
 - (8) What is the diameter of delivery hose ?
 - (9) What is the full length of extended ladder ?

| | |
|----------------|-----------------|
| (a) 10 metre | (b) 10.25 metre |
| (c) 10.5 metre | (d) 10.75 metre |
 - (10) Where revolving branch is used ?
 - (11) Lugs are in _____ coupling.

| | |
|----------------------|---------------------|
| (a) Revolving branch | (b) Female coupling |
| (c) Male coupling | (d) Standard branch |
 - (12) Diameter of hose reel hose.
 - (13) IS of DCP Extinguisher is _____.

| | |
|----------|------------------|
| (a) 2878 | (b) 10204 |
| (c) 940 | (d) None of them |
 - (14) DSU means _____.

| | |
|--------------------------|----------------------------|
| (a) Distance signal unit | (b) Depressed signal unit |
| (c) Distress signal unit | (d) Distressed signal unit |