

xv) Difference between foam tender and DCP tender.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Write in detail about demonstration & practice of different types of gears.
- Q.4 Discuss in detail the description & use of Oxy-acetylene cutting set.
- Q.5 Write about jumping cushion, chain saw, lifting bags, protective clothing & TTL.
- Q.6 Discuss about different types of ladders used for fire fighting and rescues services?
- Q.7 What is the principle of fire extinguisher? Write about the different types of fire extinguishers.

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4th Sem. / Fire Tech. & Safety

Subject : Fire Equipment and Machinery

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define Hook Ladder.
- b) What is Hose Reel?
- c) Define dry CO₂ & uses.
- d) Types of fire hoses.
- e) Where extension ladder is used?
- f) Define foam compatibility.
- g) What is ABA & its uses?
- h) Define Lifting bags.
- i) Advantages of fire extinguishers.
- j) Define blower extinguisher.

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- k) What is chain saw used in fire fighting?
- l) Define Emergency Tender.
- m) What is Canteen Van?
- n) Write the characteristics of material used in protective clothing.
- o) What is the purpose of cutting tools in fire fighting?
- p) What are the properties of foam making agents?
- q) Write the features of breakdown van.
- r) Why the maintenance of extinguishers is necessary?

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) Where the fire extinguishers are to be placed in any building?
 - ii) How the dry chemical fire extinguisher work and how effective is it?

- iii) Give the introduction of pump & pump priming.
- iv) What kind of maintenance should be done on hydraulic platforms?
- v) Discuss types of foams used for different categories of fires.
- vi) Discuss about standard drills for rescue purposes.
- vii) Write about Class-B Foam compatibility.
- viii) Write the characteristics of control unit.
- ix) Write fire fighting engine/water tender common standards?
- x) Write down the crash fire tender specifications.
- xi) Explain hook ladder construction.
- xii) Describe the proper procedures of recharging of a fire extinguisher.
- xiii) Discuss about Relay pumping operations.
- xiv) Write down the classifications of ladders.

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