

2.16 30516 FIRE CONTROL TECHNOLOGY

UNIT-1

- 1.1 Hose, Types of hose, Characteristic, Frictional loss, Material used,
- 1.2 Cause and prevention of mildew,
- 1.3 Causes and prevention of shock,
- 1.4 Causes and prevention of rubber acid,
- 1.5 Care and maintenance,
- 1.6 Types of hose fittings, Couplings,
- 1.7 Component parts of inter locking couplings,
- 1.8 Suction coupling wrenches,
- 1.9 Branches, nozzles and branch holders,
- 1.10 Foam making branches,
- 1.11 Nozzles,
- 1.12 Collecting head and suction hose fittings,
- 1.13 Breechings, Adapters,
- 1.14 Maintenance of hose fittings

UNIT-2

- 2.1 Rope, Lines, knots and ladders,
- 2.2 Introduction,
- 2.3 Manufacturing materials,
- 2.4 Types of ropes and size, Cordage,
- 2.5 Causes of deterioration of ropes and lines,
- 2.6 Different type of knots,
- 2.7 Different type of lines, Purpose of knots,
- 2.8 Ladders, Introduction, Hook ladder, escape ladder, turn table and extension ladder, Hook ladder belts

UNIT-3

- 3.1 SCBA and foam making equipment's, Introduction, Physiology of respiration,
- 3.2 Effects of respiration, Essential fetchers of BA set ,
- 3.3 Description and technical details, Care and maintenance various BA sets,
- 3.4 Advantage and disadvantage of various BA set, Foam & foam making equipment's,
- 3.5 Definition, Different type of foam concentrate,
- 3.6 Storage, Characteristics,
- 3.7 Foam branch and its type, Mechanical foam generator

UNIT-4

- 4.1 Pumps, primers, tenders and water relay, Introduction, definition,
- 4.2 Different types of pumps,
- 4.3 Different types of primers,
- 4.4 Working principle of various pumps primers,

- 4.5 Maintenance and troubleshooting,
- 4.6 Testing of pumps,
- 4.7 Advantages and disadvantages,
- 4.8 Water relay system,
- 4.9 Open circuit system,
- 4.10 Closed circuit system, Different type of tenders and Fire alarm system,
- 4.11 Operation and maintenance of various tenders,
- 4.12 Water, foam, Co₂, DCP and emergency tenders Detailed

Reference Books:

1. Handbook of Fire Technology, A Kindle Edition by R S Gupta (Author)

