

- Q.27 What are the methods of exit from fire and smoke place?
- Q.28 What is the procedure of detection to the causes of fire point.
- Q.29 Write about ceremonial parade practice.
- Q.30 Explain different type of modulation techniques.
- Q.31 What are the main responsibilities of fire fighting team at fire ground?
- Q.32 Describe the fire station alerting & dispatching of fire fighting resources.
- Q.33 What are the various factors of damage during fire?
- Q.34 What harm may occur during poisonous gas leakage? Give remedies.
- Q.35 What are the various special calls which are attended by a fire station?

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x10=20)

- Q.36 What are the pre-requisites' of physical training of manpower for lighting fire? Explain.
- Q.37 Explain the following in detail:
- Applications of wave propagation
 - Modulation and its types
- Q.38 Explain the petroleum Act/Rule, how it is important?

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Sem. 6 Fire Tech & Safety Sub : Investigation & Inspection of Fire

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (10x1=10)

- Q.1 In a oil and Gas Drilling rig, an area within 4,5 Meters of the shale shales in open area is considered as
- Zone-1
 - Zone-2
 - Zone-0
 - None of these
- Q.2 What color is used for the label of a dry powder fire extinguisher?
- Blue
 - Black
 - Cream
 - White
- Q.3 How many pumps are in a hydrant?
- 1
 - 2
 - 3
 - 4
- Q.4 Which gas is not poisonous?
- Carbon dioxide
 - Carbon monoxide
 - Sulphur dioxide
 - Nitrogen dioxide
- Q.5 What should be done when the smoke alarm emits intermittent audible signals.

- Q.6 a) Remove the battery
b) Call the fire department
c) Replace the battery
d) Replace the smoke alarm
When a smoke alarm must be replaced.
a) Every 5 years b) Every 10 years
c) Every 20 years d) None of them
- Q.7 _____ is a continuously attended room in a fire station in which alarms are received.
a) Fire station b) Watch room
c) Washroom d) Fire alarm room
- Q.8 The purpose of building bye laws is :
a) Protect safety of public against fire
b) Health hazards
c) structural failure
d) All of the above
- Q.9 _____ is a permanently fixed, mechanically operated ladder, usually mounted upon apparatus and operated from the same.
a) Extendable ladder
b) Iron ladder
c) Aerial ladder
d) Folding ladder
- Q.10 The label of a dry powder fire extinguisher is of _____ colour.
a) Black b) Blue
c) Red d) White

Section-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The process of varying one or more properties of a periodic sound waveform is called _____.
Q.12 What are causes of ignition?
Q.13 Violent movement of the earth's surface is known as _____.
Q.14 What are fire service appliances?
Q.15 Name any one nuclear element.
Q.16 NBC code part-IV was implemented in year _____.
Q.17 What are the Precautions in electricity fire?
Q.18 Define special service calls.
Q.19 What are the types of amplifiers?
Q.20 What is Cinematograph Act?

Section-C

- Note:** Short answer type Question. Attempt any Twelve questions out of Fifteen Questions. (12x5=60)
- Q.21 Explain the motives leading to arson.
Q.22 Distinguish between Pump Drill and Hydrant Drill.
Q.23 What are rescue problems of highway accident?
Q.24 What is the importance of communication in fire service? Explain.
Q.25 Explain briefly radio communication.
Q.26 Explain wave propagation and its modes.