

- Q.26 Explain the significance of triangle of fire.
 - Q.27 Why the physical fitness is must for a fire fighting engineer?
 - Q.28 Discuss the mechanism of extinction.
 - Q.29 Describe the safety steps to be taken in electrical systems.
 - Q.30 Classify various types of smoke.
 - Q.31 Enlist the precautions which must be considered while handling explosive materials.
 - Q.32 Discuss the role of fire fighter in case of emergency.
 - Q.33 Define earth leakage and the working of fuse.
 - Q.34 What are the various types of wiring?
 - Q.35 Discuss the effects of combustion.

SECTION-D

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

- Q.36 Explain briefly various methods of internal and external storage of hazardous substances.

Q.37 Explain various types of wiring transformers with the help of diagrams.

Q.38 Discuss the various sources and generation methods of electricity.

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**3rd Sem / Fire Tech & Safety
Subject:- Science of Fire Technology**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The smoke alarm fails due to _____

 - a) Dead Batteries
 - b) Disconnected Batteries
 - c) Non availability of Batteries
 - d) All of the above

Q.2 Material with _____ specific heat will heat up more rapidly in fire conditions

 - a) Low
 - b) High
 - c) Medium
 - d) None of the above

Q.3 The content of oxygen in air is normally _____ %
age of air

 - a) 100
 - b) 50
 - c) 73
 - d) 21

- Q.4 The color of exit signs shall be
a) Green b) Yellow
c) Red d) Blue
- Q.5 What is the unit of current?
a) Ampere b) Volt
c) Columb d) Watt
- Q.6 Which of the following is class A extinguisher?
a) Wood b) Alcohol
c) Lithium d) Potassium
- Q.7 Which color denotes carbon dioxide in the fire extinguisher?
a) Red b) Blue
c) White d) Black
- Q.8 Which class of fire involves an electric equipment?
a) Class A b) Class B
c) Class C d) Class D
- Q.9 Which of the following is not the cause of electric fire?
a) Open door b) Short circuit
c) Loose connections d) Overloading
- Q.10 What is the color of portable water type fire extinguisher?
a) Green b) Red
c) Blue d) Cream

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write full form of CO₂.
Q.12 Define DCP.
Q.13 What is asbestos used for?
Q.14 Define ignition.
Q.15 What is fire?
Q.16 Name types of electricity.
Q.17 Write the use of Junction Box.
Q.18 Define spontaneous combustion.
Q.19 Write the use of dry sand.
Q.20 Define short circuit.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss the factors responsible for fire.
Q.22 Discuss the various fire fighting techniques for live installations.
Q.23 Explain the possible causes of fire.
Q.24 Explain the method of extinguish electric fire.
Q.25 Discuss the working of non-extinguish agents used during fire fighting.