

- 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 \_\_\_\_\_
- Dead Batteries
  - Disconnected Batteries
  - Non availability of Batteries
  - All of the above
- Q.2 Material with \_\_\_\_\_ specific heat will heat up more rapidly in fire conditions
- Low
  - High
  - Medium
  - None of the above
- Q.3 The content of oxygen in air is normally \_\_\_\_\_ % age of air
- 100
  - 50
  - 73
  - 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

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## SECTION-B

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

- Q.11 Write full form of CO<sub>2</sub>.
- 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.

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