

B.Sc. (F. & S.) Sem.-1 (Supple.) Examination

CC-103

Fundamental of Fire

October-2024

Time : 2-30 Hours]

[Max. Marks : 70

- Q-1 Write the following.** 14
- I. Write down the general responsibilities of Divisional fire officer & Chief fire officer. 7
 - II. Write down the general responsibilities of fireman in Fire service organization? 7
- OR
- I. Define fire and Explain about triangle of fire and tetrahedron of fire with figure. 7
 - II. Write down the classification of fire. 7
- Q-2 Write the following.** 14
- I. Explain about smoldering fire? 7
 - II. Define fire load and Explain occupancy based fire load? 7
- OR
- I. Write down the diffusion flame & premix flame with figure? 7
 - II. Explain about combustion in solid? 7
- Q-3 Write the following.** 14
- I. Write down the fire resisting properties of Stone, Bricks, Timber and Steel. 7
 - II. Write down the Fire protection requirements for Multi-storeyed building. 7
- OR
- I. Write down the Fire safety of building. 7
 - II. Write down fire protection of high rise buildings. 7
- Q-4 Write the following.** 14
- I. Explain Ultra violet detector with neat sketch? 7
 - II. Explain heat detector using fusible alloy? 7
- OR
- I. Explain Ionization detector with its neat sketch? 7
 - II. Write down about optical detector and explain light obscuration type detector with neat sketch? 7
- Q-5 Answer the following. (any SEVEN)** 14
- I. Which radioactive source is used in Ionisation detector?
 - II. Flame detector relative detection speed is _____?
 - III. Liquefied natural gas is very _____ when it released?
 - IV. Heat detectors are either Line type or _____.
 - V. HVAC stands for?
 - VI. Calorific value of wood is _____?
 - VII. Calorific value of Paper is _____?
Fire load = _____?
 - VIII. Flats and office buildings are under the Medium fire load occupancy. (True / False)
 - IX. Fire is the chemical chain reaction between heat, _____ and fuel.
 - X. Cardboard is under class A fire. (True/False)
 - XI. What is the best extinguishing media for class B fire?
 - XII. _____ is best extinguishing media for Class A fire.
 - XIII. Write down the names of different types of combustion.