NQ-101 December-2015

B.Sc., Sem.-I (Fire & Safety)

CC-103: Fundamental of Fire

Tim	e: 3	Hours] [Max. Marks	: 70
1.	(a)	Write on a Class A and Class D fire. OR What is the fire triangle and tetra hydran of fire ? Differentiate between them.	7
	(b)	Write on a Surface Fire, Deep seated fire. OR What is Starvation & Smothering ?	7
2.	(a)	Give the detail of flame spread in solid. OR Write on first, second, third stages of fire.	7
	(b)	Write on grades of fire load & distribution of fire load. OR Write a short note on diffusion flame and blue flame (premix).	7
3.	(a)	Write an outline on staircase and internal wall. OR Write on the 9/11 incident of fire in the World Trade Centre.	7
	(b)	'Fire protection measures of high-rise building'. Write on this topic in you words. OR Write on stone, brick, R.C.C. of building material elements.	r 7
4.	(a)	Explain rate of rise type Heat-sensing fire detector. OR Discuss on the fixed temperature Heat detector and Ultra Violet (U/V) rays ionization type flame detector.	7
	(b)	How detector helps to prevent the fire in industries and houses ? OR Draw the figure of Detector circuit.	7
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- 5. Give the answer of following:
 - (1) Fire produces the Flame & Heat in Class A fire. (True/False).
 - (2) Water is changing its physical state for ICE at _____ temperature.
 - (3) Fire gives black smoke and blue flame. (True/False)
 - (4) How much oxygen is available in nature?
 - (5) Draw a figure of Stack effect.
 - (6) Sand is used to make a mortar. (True/False)
 - (7) Definition of Flash over.
 - (8) Definition of Ventilation.
 - (9) To protect from fire many industries develop their own private fire department for life safety. (True/False)

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- (10) Station officer gets sanctioned leave from D.F.O. (True/False)
- (11) Chief Fire Officer is the key person between Fire department and Government. (True/False)
- (12) Keeping and maintaining all firefighting equipment in working condition is the objective of fire maintenance department. (True/False)

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- (13) Combustible material is a food of fire as a fuel. (True/False)
- (14) Formula of Fire load calculation.

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