

Seat No. : \_\_\_\_\_

**NC-130**

**December-2015**

**B.Sc., Sem.-V (Fire & Safety)**

**CC : Accident Investigation**

**Time : 3 Hours]**

**[Max. Marks : 70**

1. (a) List out the observation with which the intensity of fire can be estimated. 7  
**OR**  
Describe importance of Fire Accident Investigation.
- (b) What is Hypothesis ? State its importance in Fire Accident Investigation. 7  
**OR**  
Name basic steps for Fire Accident Investigation.
2. (a) What is Forensic Investigation in Accident Investigation ? Explain. 7  
**OR**  
Describe briefly about Arson for profit and Arson for revenge and prejudice.
- (b) List out types of Arson. Briefly explain all. 7  
**OR**  
What is the importance of Photography in Arson Investigation Techniques ?
3. (a) Prepare case study on Great Fire of London. 7  
**OR**  
Explain in detail the Fire at MGM Grand Hotel.
- (b) Explain Bradford City Disaster. 7  
**OR**  
Prepare a case study on Uphaar Cinema fire.
4. (a) Prepare a case study on Bhopal Disaster. 7  
**OR**  
Find out the root cause and effects of Vessel Fire.
- (b) Find out the cause of Industrial explosion. Brief its effects. 7  
**OR**  
Prepare a case study on Oil Refinery Fire.

5. Each question carries 1 mark :

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- (1) The fire investigation sometimes referred to as \_\_\_\_\_ and \_\_\_\_\_ investigation.
  - (i) investigation & examination
  - (ii) difficulties & dangers
  - (iii) origin and cause
  - (iv) observation and experiment
- (2) Data collection is done by \_\_\_\_\_.
  - (i) observation and experiment
  - (ii) observation and challenge
  - (iii) challenge and experiment
  - (iv) challenge and gathering
- (3) Fire investigator who has reason to believe that \_\_\_\_\_ was committed is morally, professionally, obligation to develop the case to its full extent.
  - (i) Suspicious fire
  - (ii) fire followed by explosion
  - (iii) Arson
  - (iv) crime scene technique
- (4) “\_\_\_\_\_” refers to camera equipment.
  - (i) Seats of fire
  - (ii) Fire debris
  - (iii) First responder
  - (iv) Silent Witness
- (5) Expand SOP, MIC, BLE VE
- (6) \_\_\_\_\_ theory is used to find out the origin of fire.
- (7) How many people died in Whiddy Island disaster ?
- (8) Evidence lead the investigation towards the ultimate goal of finding \_\_\_\_\_.
  - (i) the truth
  - (ii) witnesses
  - (iii) first responder
  - (iv) fire commander
- (9) Which of following not a basic step of accident investigation using scientific method ?
  - (i) Preparing for the investigation
  - (ii) Test the hypothesis
  - (iii) Examination of the scene
  - (iv) Recording the scene
- (10) \_\_\_\_\_ are the key concepts concerning fire fighter’s responsibilities in preserving the fire scene.
  - (i) Anxiety and awareness
  - (ii) Attitude and alertness
  - (iii) Alertness and awareness
  - (iv) Awareness and attitude
- (11) The primary goal of fire investigator is to determine the \_\_\_\_\_.
  - (i) Truth
  - (ii) Misleading information
  - (iii) Who reported the fire
  - (iv) Multiple seats of fire
- (12) Give an example of Industrial Arson fire case study from your book ?
- (13) How many people died at Badford Stadium Disaster ?
- (14) In which year the Great Fire of London occurred ?