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Section-D

8. Give details of activities you would undertake during a salvage operation in a basement fire where cars are parked.
9. "Different Phases of Salvage normally overlap." Justify the statement.

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B.Tech. 5th Semester (Fire Technology and Safety)

F-Scheme Examination,

December-2017

SALVAGE EVALUATION OF FIRE SITUATION

Paper-FT-305-F

Time allowed : 3 hours [Maximum marks : 100]

Note : (1) Students have to attempt five questions in total. At least one question from each section must be attempted.

(2) Question No. 1 compulsory.

1. (A) Write (T) for true and (F) for false statement. 10×1=10
- (i) Covering the unexposed material is one of the salvage act.
- (ii) Water removal is necessary for effective salvage operation.
- (iii) Excessive use of extinguishing media shall facilitate salvage.
- (iv) Last person leaving the premises of fire incident is not reliable witness for investigation.
- (v) Degree of burning indicate duration and severity of fire.
- (vi) Continuous Flame region would normally be around 900°C.

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- (vii) Flames from burner are Turbulent flames.
- (viii) Glass in fire condition will crack if fire develops slowly.
- (ix) Pyrophoric activity is also one of the source of fire.
- (x) Back drought normally occurs at temperatures above 600 deg. Celsius.

(B) Fill in the blanks : 10×1=10

- (i) Arson fires are punishable acts under Act 1971.
- (ii) Candle flame is type.
- (iii) The peak temperature of candle flame may reach up to deg. Celsius
- (iv) Steel beam would normally loose it's strength by 2/3rd at temperatures of around °C.
- (v) The temperature of much in small rooms compared to large rooms.
- (vi) Use of drains and manholes must commence at Phase of salvage operation.
- (vii) Recovery of articles is resorted in phase of salvage.
- (viii) If the glass is cracked, it indicates a build up of heat.

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- (ix) Smouldering of solids is without
- (x) The temperature normally reached in electrical arching is °C.

Section-A

2. What difficulties are faced by a Salvage Officer during and after fire fighting ? What suggestions you have to overcome such difficulties ?
3. List out the Equipment and tools considered useful during Salvage operation and state their utility.

Section-B

4. How will you Assess fire loss ? Give your loss assessment for a three storey office building with covered area of approximately 100 sq. mtrs. completely destroyed in fire. No Exposure to other buildings.
5. How will you calculate Heat Release Rate from a fire ? What is the benefit of such calculation for salvage operation ?

Section-C

6. What will be your strategy to question witnesses for finding the cause of fire ?
7. How will you rule out Arson as cause of fire ?

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