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NPTEL

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Courses » Fire Protection, Services and Maintenance Management of Building

Announcements **Course** Ask a Question Progress Mentor FAQ

Unit 2 - Week 1

Course outline

- How to access the portal
- **Week 1**
  - Basic concepts of Fire Protection -1
  - Basic concepts of Fire Protection -2
  - Fire Resistance
  - Process of Combustion: Introduction
  - PDF file of slides of week 1
  - Quiz : Assignment 1
  - Solution of week 1 assignment
- **Week 2**
- **Week 3**
- **Week 4**
- **Week 5**
- **Week 6**

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment. **Due on 2018-08-15, 23:59 IST.**

Please follow the following instructions while answering the questions:
1. First question has more than one answers, tick all the correct options
2. Question 2 to 4 have only one correct answer.
3. For numeric type answers, questions 5 and 6, please do not write units in the answer box. Write only the numeral, otherwise software will evaluate the answer as incorrect.

1) Which of the following is/are required for combustion process to start? ***3 points***

- [ ] Fuel
- [ ] Oxygen
- [ ] Heat
- [ ] Nitrogen

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fuel
Oxygen
Heat

2) Fire resistance is defined in terms of: ***3 points***

- ( ) Temperature
- ( ) Strength
- ( ) Time
- ( ) Heat energy

No, the answer is incorrect.
Score: 0

Week 10
Week 11
Week 12

- Insulation
- Stability
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Insulation

4) Which of the following has a higher rate of burning? ***3 points***

- Fire in an open space
- Fire in an enclosure
- Both of the above have equal burning rates

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fire in an enclosure

5) Assuming standard fire, calculate the increase in gas temperature at the end of four minutes in °C :

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 520,530

3 points

6) In an office building the fire load per unit floor area is estimated to be 100 kg/m2 (equivalent wood), The room has a floor area of 5x10 m2 with a height of 3.5 m What is the rate of burning in kg/s when opening of height 1.8 m along the half length of 10 m wall contributes to ventilation in case of fire?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 0.99,1.2

5 points

7) Questions 1,2 and 3 consider the following equation for life cycle cost:
Life cycle cost = d1xIC + d2x(E.C+O.C+M.C) + (DL-SV)xd3

What does the term IC represent?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) Initial Cost

0 points

8) Questions 1,2 and 3 consider the following equation for life cycle cost:

Life cycle cost = d1xIC + d2x(E.C+O.C+M.C) + (DL-SV)xd3

What does the term IC represent?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) Initial Cost

0 points

9) Plant and system capacity will usually exceed the demand during operation. Answer true/ false ***0 points***

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

10) AHU stands for ..... in the context of HVAC (Heating, Ventilation and Air Conditioning system) systems ***0 points***

- Automatic humidifying unit
- Air handling unit
- Advanced heating unit

No, the answer is incorrect.
Score: 0

Accepted Answers:
Air handling unit

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