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
Which of the following has a higher rate of burning?

- 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:
- Insulation

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

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

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)x₃

What does the term IC represent?

No, the answer is incorrect.
Score: 0
Accepted Answers:
- (Type: String) Initial Cost

Questions 1, 2 and 3 consider the following equation for life cycle cost:
Life cycle cost = \( d_1 \times IC + d_2 \times (E.C + O.C + M.C) + (D.L - S.V) \times d_3 \)

What does the term IC represent?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) Initial Cost

9) Plant and system capacity will usually exceed the demand during operation. Answer 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

No, the answer is incorrect.
Score: 0

Accepted Answers:
Air handling unit