Assignment 12

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) "DesignBuilder does not allow to model a window with suction (or arbitrary) project specific thermal specifications." Is the above statement true or False?
   - True
   - False
   No, the answer is incorrect. Score: 0
   Accepted Answer: False

2) "It is not possible to model internal ventilation such as Biloids, and Curtains, etc. in DesignBuilder" is the above statement true or false?
   - True
   - False
   No, the answer is incorrect. Score: 0
   Accepted Answer: False

3) "Lighting Control generally means that whenever the illuminance level drops below a desired level, the artificial lighting is automatically turned on." Is the above statement true or false?
   - True
   - False
   No, the answer is incorrect. Score: 0
   Accepted Answer: True

4) What is the full form of ECM in the context of building energy simulation?
   - Energy Calculating Machine
   - Energy Control Module
   - Energy Conversion Method
   - Energy Conservation Measure
   Score: 0
   Accepted Answer: Energy Conservation Measure

5) Building energy performance due to individual ECMs, over and above the basic case, is usually evaluated by:
   - Analyzing the performance of a base case model
   - Analyzing the performance of a specific case model
   - Do-cost benefit analysis, assuming payback period and return on investment due to individual ECMs
   - Analyzing the implications due to neighboring buildings
   Score: 0
   Accepted Answer: Do-cost benefit analysis, assuming payback period and return on investment due to individual ECMs

6) What is the correct formula of visible light reflectance of a surface in the context of daylight simulations in DesignBuilder?
   - \( R_{\text{vis}} = \frac{1}{V} \) where \( V \) is the visible light transmittance
   - \( R_{\text{vis}} = \frac{1}{V} \) where \( V \) is the visible light absorbance
   - \( R_{\text{vis}} = \frac{1}{V} \) where \( V \) is the visible light transmittance
   - \( R_{\text{vis}} = \frac{1}{V} \) where \( V \) is the visible light reflectance
   Score: 0
   Accepted Answer: \( R_{\text{vis}} = \frac{1}{V} \) where \( V \) is the visible light transmittance

7) What does ICT stand for in the context of building daylight simulations?
   - Visual Light Transmittance
   - Very Light Transmission
   - Visual Lighting Technologies
   - Virtual Lighting Technologies
   Score: 0
   Accepted Answer: Visual Light Transmittance

8) What is the general use of building daylight simulations?
   - To evaluate the energy performance of various building facade design and specifications
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   - To evaluate the energy performance of various building facade design and specifications
   - To evaluate the daylight performance of various building facade design and specifications
   Score: 0
   Accepted Answer: To evaluate the daylight performance of various building facade design and specifications

9) Which simulation engine runs behind DesignBuilder for daylight calculations?
   - EnergyPlus
   - Radiance
   - DaLux
   - ArchiCAD
   Score: 0
   Accepted Answer: Radiance

10) What is Energy Performance Index of a building?
    - Total energy consumed by a building over a year divided by total built-up area in kWh/m²/year
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    - Total energy consumed by a building over a year divided by total built-up area in kWh/m²/year
    Score: 0
    Accepted Answer: Total energy consumed by a building over a year divided by total built-up area in kWh/m²/year