Assignment 10

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

1. The provision of energy conservation building code (ECBC) are not applicable to choose the correct sentence from the following options
   - Building envelopes
   - Equipment that use energy primarily for manufacturing processes
   - Electric power and motors
   - Mechanical systems and equipment, including HVAC.
   1 point
   Accepted Answers:
   - Equipment that use energy primarily for manufacturing processes

2. For a not assembly of a daytime use building in moderate climate, what is the maximum U-factor of the assembly according to prescriptive requirements given in ECBC 2007?
   - U-0.281
   - U-0.286
   - U-0.406
   - U-0.569
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: U-0.406

3. For a well assembly of a hospital in warm-humid climate, what is the minimum R-value of insulation alone according to prescriptive requirements given in ECBC 2007?
   - R-1.80
   - R-2.10
   - R-2.35
   - R-3.10
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: R-2.35

4. What is the maximum limit of vertical fenestration area as a percentage of gross wall area according to the prescriptive requirements?
   - 50%
   - 60%
   - 70%
   - 80%
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 50%

5. For window to wall ratio of 50% of a building in cold climate, what is the maximum area weighted SHGC requirement according to the prescriptive criteria of ECBC 2007?
   - 0.20
   - 0.25
   - 0.30
   - 0.35
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0.35

6. Which of the following approaches can be used for compliance of ECBC criteria?
   - Envelope prescriptive criteria approach
   - Envelope trade-off options approach
   - Whole building performance method
   - All of the above
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: All of the above

7. Which of the following criteria is required to be fulfilled for a building to comply with the whole building performance method?
   - Estimated annual energy use of the proposed design should be greater than the standard design
   - Estimated annual energy use of the proposed design should be less than the standard design
   - Building envelope performance factor (BPF) of the proposed design is less than the standard design
   - Building envelope performance factor (BPF) of the proposed design is greater than the standard design
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Estimated annual energy use of the proposed design should be less than the standard design

8. For walls of area 25m², glass area of 15m², U-value of the solid wall 2.4 W/m²K, U-value of the solid wall 3.4 W/m²K, absorptivity being 0.4, TD equivalent of 16°C and U of fenestration being 0.76 W/m²K with temperature differential of 16°C, shading coefficient 0.6 and solar factor of 0.8 what is the OTTV for the wall?
   1 point
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (Type: Range 15.6 13)