

Unit 11 - Week 10

Course outline

How to access the portal

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Week 10

Energy Conservation Building Code (ECBC2007)

Energy Conservation Building Code (ECBC2007) Contd..

ECBC Compliant Methodology

OTTV Methodology

Quiz : Assignment 10

PDF File

Feedback Form

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Week 12

Solution of Assignment

Assignment 10

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

Due on 2019-10-09, 23:59 IST.

1) The provision of energy conservation building code 2007 are not applicable to (choose the correct sentence rom the following options) **1 point**

- Building envelopes
- Equipment that use energy primarily for manufacturing processes
- Electrical powers and motors
- Mechanical systems and equipment, including HVAC.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Equipment that use energy primarily for manufacturing processes

2) For a roof 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? **1 point**

- U-0.261
- U-0.361
- U-0.409
- U-0.509

No, the answer is incorrect.
Score: 0

Accepted Answers:
U-0.409

3) For a wall 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? **1 point**

- R-1.80
- R-2.10
- R-2.80
- R-3.10

No, the answer is incorrect.
Score: 0

Accepted Answers:
R-2.10

4) What is the maximum limit of vertical fenestration area as a percentage of gross wall area according to the prescriptive requirements? **1 point**

- 50%
- 60%
- 70%
- 80%

No, the answer is incorrect.
Score: 0

Accepted Answers:
60%

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? **1 point**

- 0.20
- 0.25
- 0.30
- 0.51

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.51

6) Which of the following approaches can be used for compliance of ECNC criterias? **1 point**

- Envelope prescriptive criteria approach
- Envelope trade off options approach
- Whole building performance method
- All of the above

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? **1 point**

- It should comply with the prescriptive requirements of the code
- 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 (EPF) of the proposed design is less than the standard design

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 20m², glass area of 10m², U value of the solid wall 3.4 W/m²°C, absorptivity being 0.4, TD equivalent of 10°C and U of fenestration being 0.7W/ m²°C with temperature differential of 15°C, shading coefficient is 0.5 and solar factor of 0.8 what is the OTTV FOR the wall?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 12.5,13

1 point