

Unit 13 - Week 12

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Building Envelope Design for Sustainable Buildings

Building Envelope Design

Case Study for Building Envelop Design_Part I

Case Study for Building Envelop Design_Part II

Case study- Commercial Buildings_Part I

Case study- Commercial Buildings_Part II

Case study- Commercial Buildings_Part III

Case Study-The Untold Truth of the Unbuilt_Part I

Case Study-The Untold Truth of the Unbuilt_Part II

Week 12 Feedback : Glass in Buildings : Design and Applications

Quiz : Assignment 12

DOWNLOAD VIDEOS

Lecture Notes

Assignment 12

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

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

1) Identify the correct trend in the contribution of heat by various components in a façade **1 point**

- Roof>wall>glass
 Wall>roof>glass
 Glass>wall>roof
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Wall>roof>glass

2) Which is the best material for construction of a wall in a façade? **1 point**

- Brick wall
 Fly ash block
 AAC block
 Brick wall with insulation

No, the answer is incorrect.

Score: 0

Accepted Answers:
AAC block

3) Which of the following statement is true according to the IGBC requirement? **1 point**

- U value: 3.3
 U value: 4.7
 SHGC: 0.2
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
U value: 3.3

4) Which of the following are the benefits of a better façade? **1 point**

- Glare reduction
 Decrease in heat load
 Increase in energy savings
 All the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
All the above

5) What is the required U value according to the guidelines of ASHRAE? **1 point**

- 1.5
 1.2
 3.2
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
1.2

6) Which one of the following will help in reducing the operational cost of a façade? **1 point**

- Increasing the window to wall ratio
 Decreasing the window to wall ratio
 Increasing the air-conditioning load
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Decreasing the window to wall ratio

7) Which is the optimal window to wall ratio in a façade? **1 point**

- 15-20%
 10-15%
 30-40%
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
30-40%

8) Which is the best material in glass for constructing a façade? **1 point**

- 6mm plain glass
 SGU1
 DGU3
 DGU4

No, the answer is incorrect.

Score: 0

Accepted Answers:
DGU4

9) What is the optimal SHGC value for a façade according to ASHRAE? **1 point**

- 0.2
 0.25
 0.35
 1

No, the answer is incorrect.

Score: 0

Accepted Answers:
0.25

10) Which is the widely used base material for building a façade? **1 point**

- Aluminium
 Glass
 Steel
 Wood

No, the answer is incorrect.

Score: 0

Accepted Answers:
Aluminium