

Unit 9 - Week 8

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Lecture 36 Energy Efficiency - I

Lecture 37 Energy Efficiency - II

Lecture 38 Energy Efficiency - III

Lecture 39 Energy Efficiency - IV

Lecture 40 Energy Efficiency - V

Quiz : Assignment 8

Solution for Assignment 8

Week 9

Week 10

Week 11

Week 12

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Assignment 8

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

Due on 2020-03-25, 23:59 IST.

1) By reducing the thickness of material, _____

1 point

- Specific heat increases
- Conductivity increases
- Conductance decreases
- Conductance increases

No, the answer is incorrect.
Score: 0

Accepted Answers:
Conductance increases

2) 230 mm brick wall and 50 mm brick wall has same

1 point

- Conductivity
- Conductance
- Resistance
- None of the Above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Conductivity

3) For selecting a glass for a building we should be aware of which properties of glass:

1 point

- Only SHGC
- Only U value
- Only VLT
- Only SHGC and U-Value
- All the Three (SHGC, U-Value and VLT)

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the Three (SHGC, U-Value and VLT)

4) Cool roof has the properties of

1 point

- High reflectance and high emissivity
- Low reflectance and low emissivity
- High reflectance low emissivity
- Low reflectance high emissivity

No, the answer is incorrect.
Score: 0

Accepted Answers:
High reflectance and high emissivity

5) Which of the following Glass types is better to choose for better lighting and reduced heat gain?

1 point

Glazing Type	VLT	SHGC
• Clear glass	0.82	0.78
• Dark reflective bronze tint	0.20	0.33
• Spectral selective low e (clear)	0.70	0.43
• Spectrally selective low e with green tint	0.40	0.23

- Clear glass
- Dark reflective bronze tint
- Spectral selective low-e (clear)
- Spectrally selective low e with green tint

No, the answer is incorrect.
Score: 0

Accepted Answers:
Spectrally selective low e with green tint

6) Function of VAV in a HVAC system is

1 point

- Varies the amount air flow
- Varies the set point temperatures
- Varies the refrigerant direction
- Varies the refrigerant flow

No, the answer is incorrect.
Score: 0

Accepted Answers:
Varies the amount air flow

7) Prescribed maximum U factor for the temperate climate is higher compare to other climates because temperate climate has

1 point

- Lesser Diurnal difference in temperatures
- Annual peak Temperature is higher
- Annual Peak Temperature is lower
- High humidity all through the year

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lesser Diurnal difference in temperatures

8) SHGC = 0.27 implies 27 % of the solar heat is restricted to be transmitted through the material

1 point

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

9) There are two types of compliance approaches for Lighting Power Density (LPD). One is space function method and another one is

1 point

- Space activity method
- Building area method
- Building volume method
- Building density method

No, the answer is incorrect.
Score: 0

Accepted Answers:
Building area method

10) If the building produces (through renewable energy sources) as much energy as it consumes at the building level, such building is called as

1 point

- Net-zero site energy building
- Net-zero source energy building
- Net-zero energy cost building
- Net-zero energy emission building

No, the answer is incorrect.
Score: 0

Accepted Answers:
Net-zero site energy building