

## Unit 4 - Week 3

## Assignment 3

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

Due on 2019-08-21, 23:59 IST.

- 1) What does the passive design represent in constructing a building? 1 point
- Design with natural elements  
 Non-systematic  
 Climate responsive building  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 All the above
- 2) Simulation is the key to \_\_\_\_\_. 1 point
- Integrated design  
 Diversified design  
 Partial design  
 Special design
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Integrated design
- 3) What is a baseline case? 1 point
- Maximum prescriptive requirements  
 Minimum prescriptive requirements  
 Saturated prescriptive requirements  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Minimum prescriptive requirements
- 4) What is a proposed case? 1 point
- Customised requirements  
 Simplified requirements  
 Design specification  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Customised requirements
- 5) What are the important parameters of a glass? 1 point
- Solar heat gain coefficient  
 Radiance of light  
 U Value  
 Glaring
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Solar heat gain coefficient  
 U Value
- 6) What is a U value? 1 point
- Defines the light transmission of window  
 Defines the heat transmission of window  
 Defines the heat transmission of window and frame  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Defines the heat transmission of window and frame
- 7) What is the fenestration assembly, U-factor data of a building envelope? 1 point
- U = 0.510  
 U = 0.520  
 U = 0.530  
 U = 0.540
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 U = 0.530
- 8) What is the SHGC for a baseline building envelope? 1 point
- SHGC = 0.390 (SC=0.448)  
 SHGC = 0.348 (SC=0.40)  
 SHGC = 0.358 (SC=0.404)  
 SHGC = 0.348 (SC=0.414)
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 SHGC = 0.390 (SC=0.448)
- 9) What is the average baseline energy cost? 1 point
- 23% xx points  
 23.37% xx points  
 23.35% xx points  
 23.38% xx points
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 23.37% xx points
- 10)How many layers does a switchable glass have? 1 point
- 2 layers of glass, EVA / PVB and Liquid crystal  
 1 layers of glass, EVA / PVB and 2 layers Liquid crystal  
 2 layers of glass, EVA / PVB and Liquid crystal foil  
 2 layers of glass, EVA / PVB and 2 layers of Liquid crystal foil
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 2 layers of glass, EVA / PVB and Liquid crystal foil
- 11)What is the acceptance level for spot faults in split sizes with respect to the area? 1 point
- 10 m<sup>2</sup>  
 20 m<sup>2</sup>  
 30 m<sup>2</sup>  
 40 m<sup>2</sup>
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 20 m<sup>2</sup>
- 12)The natural view is the \_\_\_\_\_ effect 1 point
- Restorative  
 Alleviate  
 Glare  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Restorative
- 13)The views that matter biologically are \_\_\_\_\_. 1 point
- Focused eyes  
 Feeling of safety  
 Connected to the world  
 Non-restorative
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Feeling of safety  
 Connected to the world
- 14)In green buildings, the benefits of daylight and views in terms of call processing is faster by \_\_\_\_\_. 1 point
- 5- 10%  
 6 – 12%  
 8 – 12%  
 10-15%
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 6 – 12%
- 15)For what reason the animal skins are spanned prior to dwellings? 1 point
- To stop direct sunlight  
 To stop direct heat  
 To stop glare  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 To stop glare
- 16)Does selectivity refer to the ratio of  $\frac{\text{Amount of light}}{\text{Amount to heat}}$  coming inside the building envelope? 1 point
- True  
 False
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 True
- 17)The highly reflective glasses with heat gain of 0.15 will be \_\_\_\_\_. 1 point
- Too dark  
 Dark  
 Partial bright  
 bright
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Too dark
- 18)what is the light transmission percentage of spectrum? 1 point
- 50%  
 60%  
 70%  
 75%
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 60%
- 19)What is the heat gain percentage of spectrum? 1 point
- 30%  
 40%  
 60%  
 70%
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 40%
- 20)What is a switchable glass? 1 point
- Laminated active glass under electrical current, switches from transparent to opaque  
 Non-Laminated active glass under electrical current, switches from transparent to opaque  
 Laminated passive glass switches from transparent to opaque  
 Non-Laminated passive glass switches from transparent to opaque
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 Laminated active glass under electrical current, switches from transparent to opaque
- 21)What is encapsulated between the lamination layers of switchable glass? 1 point
- A liquid crystal film  
 Dielectric crystal film  
 Molecular crystal film  
 Transparent crystal film
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 A liquid crystal film
- 22)Does switchable glass consume more power? 1 point
- False  
 True
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 False
- 23)Select the right applications of a switchable glasses? 1 point
- Washrooms  
 Lobbies  
 Projection screens  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 All the above
- 24)The switchable glasses are resistant to \_\_\_\_\_. 1 point
- UV discoloration  
 High temperature variations  
 Abrasion  
 All the above
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 All the above
- 25)The silver coated glass must undergo \_\_\_\_\_ cycles to pass the test. 1 point
- 200  
 250  
 300  
 350
- No, the answer is incorrect.  
 Score: 0  
 Accepted Answers:  
 300

## Course outline

## How to access the portal

## Week 1

## Week 2

## Week 3

 Design Tools for Glass Selection

 Modeling the Building Envelope\_Part I

 Modeling the Building Envelope\_Part II

 Modeling the Building Envelope\_Part III

 Innovations in Glass Future Facades\_Part I

 Innovations in Glass Future Facades\_Part II

 Standards Related to Glass

 Week 3 Feedback

 Quiz : Assignment 3

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## Week 5

## Week 6

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