

Unit 10 - Week 9

Assignment 9

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

Due on 2019-10-02, 23:59 IST.

1) Which is the widely used base material for making a façade?

1 point

- Glass
- Aluminium
- Steel
- Wood

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Aluminium

2) Which statement given below is true?

1 point

- Anodizing is harder than PVDF
- Anodizing can peel off
- Anodizing is more expensive than painting
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Anodizing is harder than PVDF

3) Which one of the following process does not use deposition technique?

1 point

- PVDF
- Powder coating
- Anodizing
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Anodizing

4) Toughened glass is also known as

1 point

- Annealed glass
- Heat strengthened glass
- Tempered glass
- FRG

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Tempered glass

5) A gasket is used for which of the following?

1 point

- To prevent glass metal contact
- To prevent water and air leakage through joints
- To provide system space for expansion or contraction
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

6) Which component is used to glue the glass to a frame?

1 point

- Gasket
- DS Tape
- Smoke seal
- Bracket

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 DS Tape

7) Vertical section of the frame is called as

1 point

- Transom
- Bracket
- Gasket
- Mullion

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Mullion

8) Which of the following are the properties of a good sealant?

1 point

- Adhesion to substrate material
- Ability to deform under stress
- Weather resistance
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

9) Which is the factor primarily checked for a façade?

1 point

- Strength
- Deflection
- Thermal breakage resistance
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

10) The term used to describe the load carrying capacity of a system beyond the expected load is known as a

1 point

- Stress factor
- Safety factor
- Load factor
- Thermal factor

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Safety factor

11) How do you calculate FoS?

1 point

- FoS=Ultimate Stress × Working stress
- FoS=Working stress/ Ultimate stress
- FoS=Ultimate stress/ Working stress
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 FoS=Ultimate stress/ Working stress

12) What is the maximum allowable limit for a live load in glass and glazing?

1 point

- 10mm
- 25mm
- 40mm
- 30mm

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 25mm

13) What are the factors used to design Wind speed?

1 point

- Probability factor
- Topography factor
- Height factor
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

14) How is the wind load on a structural element calculated?

1 point

- $F=(C_{pe}-C_{pi}) A pd$
- $F=(C_{pi}-C_{pe}) A pd$
- $F=(C_{pe}-C_{pi}) A$
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 $F=(C_{pe}-C_{pi}) A pd$

15) Identify the correct pass file criteria

1 point

- $M_{res} > M_x$
- $M_{res} < M_x$
- $d_e < \text{Allowable deflection}$
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 $M_{res} > M_x$

16) Which of the following belongs to the frameless curtain wall system?

1 point

- Unitized CW system
- Stick CW system
- Spider Glazing
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Spider Glazing

17) What are the aspects considered to design a balanced façade?

1 point

- Energy efficiency
- Minimize glare and radiation
- Sufficient day light
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

18) Which is the suitable U value for vision glass?

1 point

- 1.1-1.2
- <1
- 1
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 1

19) How does thermal break system enhance energy efficiency?

1 point

- By using aluminium sections
- By reducing the number of gaskets and chambers
- By increasing the U value
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 By using aluminium sections

20) Which of the following statement is not true?

1 point

- In semi unitized system 10 % of the work is done at site
- Stick system has a longer installation period
- In unitized system, the mullions and transoms are installed on brackets anchored to beam
- Product and installation costs are lower than conventional frame supported curtain wall system in spider glazing system

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Product and installation costs are lower than conventional frame supported curtain wall system in spider glazing system

21) What are the loads that must be considered for building a façade?

1 point

- Dead load
- Live load
- Wind load
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 All the above

22) How do you calculate the required structural bite thickness?

1 point

- Bite size=short span× Wind load
- Bite size=.5 ×short span× Wind load
- Bite size= (.5×short span ×Wind load)/sealant design strength
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Bite size= (.5×short span ×Wind load)/sealant design strength

23) Horizontal structures in stick system are also called as

1 point

- Mullions
- Transoms
- Gasket
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Transoms

24) What are the conditions that are satisfied by a mullion?

1 point

- Deflection criteria
- Heat factor
- U value
- All the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Deflection criteria

25) Which of the following statement is not true?

1 point

- The glass is supported by spider arms
- The glass is supported by glass fin
- The spider arms are designed to transfer the load
- None of the above

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 None of the above

Course outline

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 Facade Fundamentals_Part IV

 Glass Application on Facades_Part I

 Glass Application on Facades_Part II

 Glass Application on Facades_Part III

 Energy Efficiency Facade System

 Structural Design of Facades_Part I

 Structural Design of Facades_Part II

 Glass In Buildings : Design And Applications : Week 9 Feedback

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