



1. The document describing the design criteria and loads used for a given industrial building project is referred to as?
  - a. Standard of Practice document
  - b. Basis of Design document
  - c. Cut sheet
  - d. Process Load and Layout document
  
2. Drawings prepared by the Process Engineer that show equipment layout, equipment geometry and spacing and process flow are referred to as?
  - a. Basis of Design Drawings
  - b. General Arrangement Drawings
  - c. Process Design Drawings
  - d. Process Flow Drawings
  
3. Which of the items listed below is not a key project design parameter for an industrial design project?
  - a. Site and soil information
  - b. Wall and roof material preferences
  - c. Intended hours of operation
  - d. Utility routing and support requirements
  - e. Equipment maintenance access
  - f. Future expansion plans
  
4. What aspect ratio is best to minimize the cost of the exterior wall system for a one-story industrial building?
  - a. 1:1
  - b. 1.5:1
  - c. 2:1
  - d. 4:3
  - e. 16:9
  
5. According to studies performed by the speaker, what bay size is commonly more economical for an industrial building, considering cost of building superstructure and building foundations?
  - a. 20 ft. bay
  - b. 30 ft. bay
  - c. 40 ft. bay



## Topics on Industrial Building Design and Design of Non-Building Structures

Quiz for Session 2: Industrial Buildings 1 – June 23, 2020

Due: July 21, 8:00 a.m. EDT – Submit through the online form

6. Which of the following is not an advantage of using a standing seam metal roof on an industrial building?
  - a. Water tightness
  - b. Long life
  - c. Low cost
  - d. Low weight
  - e. Appearance
  
7. Per the International Building Code, the minimum roof slope to be used on a building is equal to?
  - a. 1/8:12
  - b. 1/4:12
  - c. 1/2:12
  - d. Engineering judgement as to what is the minimum slope
  
8. True or False: When evaluating a roof system for ponding, the International Building Code and ASCE 7 state that the primary roof drainage system must be considered to be blocked.
  - a. True
  - b. False
  
9. Which of the items listed below is not a purpose to provide a regular inspection program for an industrial building facility?
  - a. Maintain safe structures and avoid risk to personnel & equipment
  - b. Determine costs for forced shutdowns
  - c. Avoid excessive repair costs
  - d. Allows for planned maintenance activities
  - e. Address operational or maintenance problems
  
10. The speaker explains bay length as a function of type of secondary framing. If the bay length is 40 feet, the secondary roof framing members are likely:
  - a. Light gage Z purlin
  - b. Light gage C purlin
  - c. Hot rolled members
  - d. Bar joists
  - e. All of the above are options
  - f. A and B only
  - g. C and D only



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