

## Final Exam

1. During building construction, when may the elements of an impervious-moisture-barrier system be concealed?

- (a) After all elements have been inspected.
- (b) After all elements have been inspected and approved.
- (c) After confirmation that the balcony will not be exposed to water from direct rain.
- (d) After the manufacturer has provided recommendations for the proper installation of the impervious-moisture-barrier system.

2. True or false? A self-contained gas detection and alarm device is NOT classified as a gas detection system.

- (a) True
- (b) False

3. Which of the following is NOT an acceptable response activated by a Gas Detection System according to the Code?

- (a) Notifying a responsible person
- (b) Activating an alarm signal
- (c) Activating or deactivating equipment
- (d) Disabling the automated sprinkler system

4. Which of the following would be considered a Wind-borne Debris Region?

- (a) An area where the ultimate design wind speed,  $V_{ult}$ , is 140 mph or greater.
- (b) An area where the ultimate design wind speed,  $V_{ult}$ , is 130 mph or greater.
- (c) An area where the ultimate design wind speed,  $V_{ult}$ , is 120 mph or greater.
- (d) An area where the ultimate design wind speed,  $V_{ult}$ , is 100 mph or greater.

5. The 7<sup>th</sup> Edition of the Florida Building Code was revised to correlate with ASCE 7-16 by including a reference to a new wind speed map as referenced in the definition of Wind-borne Debris Region. For *Risk Category III* health care facilities, the wind-borne debris region shall be based on which of the following maps?

- (a) Figure 1609.3(1)
- (b) Figure 1609.3(2)
- (c) Figure 1609.3(3)
- (d) Figure 1609.3(4)

6. According to the definition of Wind-borne Debris Region, Risk Category IV buildings and other structures, the wind-borne debris region shall be based on which of the following maps:

- (a) Figure 1609.3(1)
- (b) Figure 1609.3(2)
- (c) Figure 1609.3(3)
- (d) Figure 1609.3(4)

7. What is the minimum distance of projection from the property line if the Fire Separation Distance is 2 feet to less than 3 feet?

- (a) 24 inches
- (b) 36 inches
- (c) 40 inches
- (d) Projection is not permitted

8. What is the minimum distance of projection from the property line if the Fire Separation Distance is 5 feet or greater?

- (a) 24 inches
- (b) 36 inches
- (c) 40 inches
- (d) Projection is not permitted

9. Attics that are used or intended for which of the following purposes shall be protected by an automatic sprinkler system:

- (a) Living purposes
- (b) Storage
- (c) Design aesthetic
- (d) Both (a) and (b)

10. Which of the following is NOT an option for Group R-4 Condition 2 occupancy attics that are not required to have sprinklers?

- (a) Provide a heat detector system throughout the attic that is arranged to activate the building fire alarm system.
- (b) Construct the attic using semi-noncombustible materials.
- (c) Construct the attic using fire-retardant-treated wood complying with Section 2303.2.
- (d) Fill the attic with noncombustible insulation.

11. For toxic gases, sample analysis shall be performed at intervals not exceeding \_\_\_\_ minutes in accordance with the *Florida Fire Prevention Code*.

- (a) 3 minutes
- (b) 10 minutes
- (c) 5 minutes
- (d) 30 minutes

12. A gas detection alarm shall be initiated for flammable gases where any sensor detects a concentration of gas exceeding \_\_\_\_ percent of the lower flammability limit.

- (a) 10 percent
- (b) 15 percent
- (c) 25 percent
- (d) 50 percent

13. Where installed on buildings of Type I, II, III and IV construction, MCMs and MCM systems shall comply NFPA 285 for installations greater than 40 feet above grade plane.

- (a) 20 feet
- (b) 30 feet
- (c) 40 feet
- (d) 5 feet

14. According to Table 1507.1.1.1 *Underlayment with Self-Adhering Strips Over Roof Decking Joints*, which of the following types of underlayment are acceptable for asphalt shingles, but not wood shingles?

- (a) ASTM D6757
- (b) ASTM D4869 Type III or IV
- (c) ASTM D226 Type II
- (d) ASTM D922 Type I

15. According to Table 1507.1.1.1 *Underlayment with Self-Adhering Strips Over Roof Decking Joints*, if the roof slope is greater than 4:12, then underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped \_\_\_\_\_ inch(es); end laps shall be 6 inches and shall be offset by 6 feet.

- (a) 1 inch
- (b) 2 inches
- (c) 3 inches
- (d) 4 inches

16. True or false? According to Section 1510.7.1 *Wind resistance*, rooftop-mounted *photovoltaic* systems shall be designed for wind loads in accordance with ASCE 6.

- (a) True
- (b) False

17. Exception 4 for Section 1609.1.1 *Determination of wind loads* applies specifically to the design of which of the following?

- (a) Photovoltaic systems
- (b) Antennas
- (c) Metal flagpoles
- (d) Residential structures

18. According to Figure 1609.3(3), what is the ultimate design wind speed for Risk Category IV buildings and other structures in the majority of Sarasota County?

- (a) 200 mph
- (b) 190 mph
- (c) 180 mph
- (d) 170 mph

19. According to Figure 1609.3(3), what is the ultimate design wind speed for Risk Category IV buildings and other structures in the majority of Lake County?

- (a) 150 mph
- (b) 160 mph
- (c) 170 mph
- (d) 125 mph

20. According to Section 1612.4.2 *Modification of ASCE 24 9.6 Pools*, equipment for pools, spas and water features shall be permitted below the required elevation, provided that which of the following is true?

- (a) The equipment is elevated to the extent practical
- (b) The equipment is anchored to prevent flotation and resist flood forces
- (c) The equipment is supplied by branch circuits that have ground-fault circuit-interrupter protection
- (d) All of the above

