Continuing Education

1 Which are required when cutting openings into existing masonry walls:

a) Gravity support for the wall that remains
b) Structural integrity of the wall relative to in-plane lateral loads
c) Safety of the occupants during and after wall modifications
d) All of the above

2 When considering a building for renovation/adaptive reuse, which of the following should be undertaken:

a) Obtain the original construction drawings to understand design intent
b) Conduct a visual review to identify areas of distress
c) Perform investigative openings to confirm that the construction conforms to the design
d) Perform structural analysis if the design loads have changed or if physical alterations to the structure will change the way that loads are distributed
e) All of the above

3 Cracks in masonry bearing walls should be:

a) Repointed or sealed to keep out water
b) Assessed to determine the cause of the crack so that an appropriate repair can be designed.
c) Ignored because masonry has a high safety factor
d) Considered to be an indicator that the masonry has been stressed beyond its capacity
e) B and D
f) A and C

4 If a building has remained standing for more than fifty years, a condition assessment is not needed because it would have fallen down if it did not have adequate structural capacity.

a) true b) false

5 COMcheck is NOT designed to:

a) Provide projected annual energy use of a building based on its envelope design
b) Provide the percentage by which an envelope will pass minimum energy code requirements
c) Be a measure of comparison between envelope systems and their energy code compliance
d) None of the above

6 Experienced project team members are beneficial to a renovation for all of the following EXCEPT which:

a) Ability to assess and correct problems
b) Ability to meet deadlines
c) Ability to prevent surprises from occurring
d) Ability to turn over a sound and safe finished project

7 Because Effective R-value takes into consideration thermal mass, it may provide a better estimate of a building's performance than standard R-value.

a) true b) false

8 Which of the following describes U-Factor:

a) Reflects how much conduction heat transfer occurs through a wall system
b) Reflects how much convection heat transfer occurs through a wall system
c) Refers to a material's ability to store heat
d) Is the inverse of R-value
e) A and D
f) B and C
g) B and D

9 Variable conditions which may affect heat transfer through a wall include:

a) Moisture condition of the wall
b) Building type
c) Air movement across the wall surface
d) Heat absorption and storage capacity
e) A, B and C
f) A, C and D

10 Conditions under which standard R-values are measured include which of the following:

a) Circulating air on the inside of the assembly
b) 75° F mean temperature
c) 15 mph wind on the exterior
d) Constant interior and exterior temperature
e) A and C only
f) B, C and D only

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To receive one AIA/CES LU credit, read *The Effectiveness of Effective R-Value* (p 14) and *Expect the Unexpected* (p 20) then complete the above questions.

DIRECTIONS: Select one answer for each question in the exam and circle the appropriate letter. **You may also submit your exam online at masonryedge.com.** A minimum score of 80% is required to earn credit. Valid for credit through October 2012.

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