

QUIZ: REDUCING AIR LEAKS (from the BOC Bulletin, Winter/Spring 2018)

- 1) Which of the following is NOT a factor that affects building air leakage?
 - A. Cracks around windows, doors, dampers and skylights
 - B. Exterior lighting
 - C. Direction and duration of the wind
 - D. Pressure differences inside and outside the building
- 2) What characteristics of the building plan will affect the amount of infiltration and exfiltration?
 - A. The number of doors and windows.
 - B. Placing wind barriers in front of doors and window subject to high wind velocities.
 - C. Orienting the center of a U-shaped building away from prevailing winds.
 - D. All of the above
- 3) As warm, low-pressure air rises through a building, it tends to draw with it the cooler, high-pressure air from lower levels. What is this called?
 - A. Ventilation effect
 - B. Wind effect
 - C. Stack effect
 - D. Pressure effect
- 4) In winter, reducing air temperatures in stairwells is an effective way to reduce infiltration from:
 - A. Combustion effect
 - B. Wind effect
 - C. Ventilation effect
 - D. Stack effect
- 5) What is an example of a tool used to measure air leakage rates in buildings?
 - A. Thermal imaging camera
 - B. Blower door
 - C. Smoke pencil
 - D. Data logger
- 6) What is a safe and effective way to reduce air leakage around openings used for electrical conduits, piping, and outdoor air louvers?
 - A. Caulk and weather-strip

- B. Install gaskets
- C. Cover with plastic sheeting
- D. A & B

7) In high winds, a negative pressure is often created on the side of a building opposite the wind (referred to as the leeward side). What is the effect of negative pressure on building air leakage?

- A. May force outside air into the building through openings in the leeward side.
- B. May force inside air out of the building through openings in the leeward side.
- C. Is unlikely to have any effect on air leakage.
- D. Is likely to increase building moisture levels.

Answers: 1B, 2D, 3C, 4D, 5B, 6D, 7A