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Continuing Education Course #145  
Variable Air Volume (VAV) For Laboratories

1. The hood airflow performance, like all other laboratory decisions, needs to take into account the required functional requirements of the hood and laboratory first and foremost.
  - a. True
  - b. False
  
2. In laboratories it never acceptable to use standard VAV boxes even if a fiber free type of insulation or a double wall VAV box with metal on the inside of the box is used.
  - a. True
  - b. False
  
3. Air valves are highly engineered products with \_\_\_\_\_.
  - a. linear control, low accuracy and low pressure loss
  - b. linear control, high accuracy and high pressure loss
  - c. none linear control, high accuracy and low pressure loss
  - d. linear control, high accuracy and low pressure loss
  
4. Fabric air distribution diffusers can also can be effectively used in VAV systems and can be utilized in retrofit projects where the original specified metal air devices have did not provide the necessary performance when labs were renovated and greater airflow, less draft or less noise was needed.
  - a. True
  - b. False
  
5. According to some sources, typical room negative pressure safety concerns are satisfied with a negative differential in the range of \_\_\_\_\_ inches W.G.
  - a. 0.10 to 0.20
  - b. 0.05 to 0.07
  - c. 0.03 to 0.04
  - d. 0.01 to 0.02
  
6. A slight air flow can be noticed through an open doorway with a pressure differential of 0.01 inches W.G.
  - a. True
  - b. False
  
7. The AMCA Standard 260 Setup #1 tests the \_\_\_\_\_ inlet air capacity.
  - a. fan
  - b. nozzle
  - c. windband
  - d. exhaust stack
  
8. AMCA Standard 260 Setup #2 tests and quantifies the outlet capacity at the discharge of the \_\_\_\_\_ which includes the fan and induced air volumes.

- a. fan nozzle
- b. fan discharge
- c. windband
- d. exhaust stack

9. The key to specifying high plume exhaust fans is to specify the outlet velocity of the \_\_\_\_\_.

- a. fan nozzle
- b. fan discharge
- c. windband
- d. exhaust stack

10. Various agencies and organizations have developed codes and standards affecting the design of research laboratories. These codes and standards are \_\_\_\_\_ requirements.

- a. maximum
- b. minimum
- c. absolute
- d. merely recommended but essential

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