

BUILDING SYSTEMS MOCK EXAM

1. Designing a large 3 story multi-wing university office structure, you would probably use a ...

- a. Central air handler unit
- b. Individual fan coil units
- c. Central chiller, chilled water loop
- d. A DX rooftop unit

2. Designing a large single story manufacturing building air supply heating system, you would probably use a ...

- a. Central air handler unit
- b. Individual fan coil units
- c. Central chiller, chilled water loop
- d. DX rooftop units

3. The hardest part about putting in a sink in a kitchen island is ...

- a. Scalding risk
- b. Air gap
- c. Vent
- d. Waste line has to reach all the way across the room to the plumbing wall

4. In a Temperate zone, what will typically drive the duct design of the HVAC system?

- a. Cooling system
- b. Dehumidification
- c. Heating system
- d. Sling psychrometer

5. In the typical tenant office construction, the supply system is usually ...

- a. Ducted
- b. Plenum
- c. Always cooling
- d. A VAV box

6. A typical Chiller has a hot condenser barrel, a cold evaporator barrel, and a _____.

7. A client is worried about the noise from the HVAC system. Which of the following would you possibly suggest? (Check all that apply.)

- a. Dampers
- b. Duct lining
- c. Chiller
- d. Absorbtion cooling tower
- e. Base isolators
- f. radiant floor / cool beam
- g. remote location / rooftop unit

8. A _____ stack vent is used for a toilet.

9. If the air gap is in question, then it is likely that you will be required to install a... ?

- a. Regulator
- b. Check valve
- c. Filter
- d. Thermal break

10. A trombe wall is an example of a ...

- a. High "r-value" assembly
- b. Passive heating system
- c. System of gathering electrical energy from the occupant's activity
- d. Natural air filter