

- 1. A thermostat, which is sometimes installed in the return air duct, serves primarily to:**
 - a) limit temperature of the heated outside air
 - b) control the throttle of the steam in the tubes
 - c) sense the temperature of the steam in the coils
 - d) minimize temperature fluctuations in discharge air
 - e) heat recirculated air

- 2. Air vents are:**
 - a) not required when an inverted bucket steam trap is used
 - b) not required on the steam mains if an inverted bucket steam trap is used at the steam coil
 - c) not required at the steam coil if a float and thermostatic trap is used at the steam coil with an atmospheric return and the steam main is adequately vented
 - d) not required anywhere if a float and thermostatic trap is used at the steam coil
 - e) required only with hot water coils

- 3. Ethylene glycol used in glycol coils:**
 - a) has a higher heat transfer efficiency than hot water
 - b) has less friction losses in the coil and piping than hot water
 - c) requires a smaller pump and less horsepower than hot water
 - d) has much lower pressure drops through the coil and piping
 - e) have a lower heat transfer efficiency than hot water

- 4. In a hot water coil which of the following is not included for providing a good guideline for the correct application of the system with minimal possibility of freeze-up?**
 - a) positive air venting of the coil is essential
 - b) the air velocity should exceed 10 m/s
 - c) a constant flow of water should be fed to the coil
 - d) the water velocity should exceed 0.8 m/s
 - e) the water temperature should be maintained at a reasonable preset temperature

- 5. The flow arrangement best suited for hot water coils is:**
 - a) the counter flow arrangement because it is more efficient
 - b) the parallel flow arrangement because it gives better protection against freezing
 - c) one in which the cold air enters the coil where the coldest water is flowing
 - d) the half serpentine
 - e) the triple bypass flow arrangement

Answers 1= d, 2=c, 3=e, 4=b, 5=b