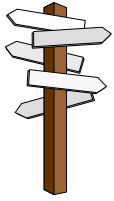


Certification Boulevard



Test Your Knowledge of Water Supply and Wastewater Disposal

1. When pumping water from a well to a treatment process, the Total Dynamic Head is the sum of four (4) components, list these components:

A) _____

B) _____

C) _____

D) _____

2. Given the following data, calculate the approximate horsepower delivered by this pump:

- Flow is 3,500 gpm
- TDH is 175 feet
- Does not consider pump and motor efficiency

- a. 20 HP
- b. 18 HP
- c. 175 HP
- d. 155 HP

3. What test is typically performed to identify toxicity on wastewater effluent discharged to open bodies of water in Florida?

- a. CBOD₅
- b. TSS
- c. pH
- d. Bioassay

4. What are the principle nutrients that must be removed from effluent before it is safe for discharge to Florida waters?

- a. Sulfate and Carbon
- b. Nitrogen and Carbon
- c. Phosphorus and Sulfate
- d. Nitrogen and Phosphorus

5. What are typical fecal coliform standards for wastewater effluent applied as reuse water in Florida?

- a. No Greater Than 200 #/100 ml
- b. 50% of the Samples Less Than 2 #/100 ml
- c. 75% of the Samples Non-Detectable /100 ml
- d. No Single Sample Greater Than 25 #/100 ml

6. Given the following data, how many gallons per year of sodium hypochlorite are used to disinfect effluent at this plant?
- Chlorine application rate required is 275 lbs/day
 - Sodium Hypochlorite solution strength is 12.5%
 - Bulk density of solution is 9.8 lbs/gal
- a. 222 gal/year
b. 57,772 gal/year
c. 2,200 gal/year
d. 81,939 gal/year
7. If a gallon of water weighs 8.34 lbs, and a cubic foot of water holds 7.48 gallons ... how much does a cubic foot of water weigh?
- a. 92.4 lbs
b. 89.6 lbs
c. 62.4 lbs
d. 3.14 lbs
8. Which DEP rule governs water reuse in Florida?
- a. 62-900
b. 62-720
c. 62-503
d. 62-610
9. A potable water flow meter reads 83 gpm for 13 hrs/day and 47 gpm for the remaining 11 hrs/day. What is the total daily flow in mgd?
- a. 0.64740 mgd
b. 0.09576 mgd
c. 0.03102 mgd
d. 0.1870 mgd
10. What is the flow velocity in a 6-inch pipe as compared to the flow velocity in a 12-inch pipe, assuming both pipes are carrying a water flow of 50 gpm.
- a. The same
b. Twice the velocity
c. Three time the velocity
d. Four time the velocity