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Continuing Education Course #378
Water Storage Tanks

1. Which of the following is NOT a typical purpose of a water storage tank?
 - a. Increase reliability of drinking water system
 - b. Receive water from a larger tank
 - c. Store water for fire demands
 - d. Normalize flow rates
2. How does an elevated water storage tank provide pressure to the distribution system?
 - a. With a large volume of water
 - b. Holding pressurized water in the tank
 - c. With a height of water above grade
3. What is the most common industry standard for the design of water system components?
 - a. Ten States Standards
 - b. NFPA 25
 - c. AWWA Standard C652
4. After constructing a new tank for finished water, what is required prior to placing it in service?
 - a. Regular inspection
 - b. Disinfection
 - c. Architectural features
5. Which of the following is NOT a type of water storage tank?
 - a. Elevated Storage Tank
 - b. Ground Storage Tank
 - c. Sherman Tank
6. What is the unit cost for a 4 million gallon tank that costs \$2 million dollars to construct?
 - a. \$0.50 per gallon
 - b. \$2.00 per gallon
 - c. \$4.00 per gallon
7. Which of the following is a benefit to a low surface to volume ratio?
 - a. Allows higher pressure water
 - b. Requires less frequent inspection
 - c. Lower construction cost
8. What is the water pressure at grade due to tank with a height of 100 feet measured from the water surface to grade?
 - a. 231 psi
 - b. 100 psi
 - c. 43 psi

9. What is the minimum pressure required in a typical water distribution system?
- a. 10 psi
 - b. 20 psi
 - c. 40 psi
10. What is the minimum required storage volume according to the Ten States Standards (not including fire flow demand)?
- a. Volume must be equal or greater than the minimum daily consumption
 - b. Volume must be double the average daily consumption
 - c. Volume must be equal or greater than the average daily consumption
11. When calculating the demand storage volume, which of the following four factors should be taken into account?
- a. Flow equalization, fire flow demand, emergency reserve, and dead storage
 - b. Water pressure, fire flow demand, emergency reserve, and dead storage
 - c. Flow equalization, fire flow demand, emergency reserve, and live storage
12. Dead storage at the bottom of a tank is due to which of the following?
- a. To prevent entrained air from entering the outlet pipe
 - b. For additional fire flow demand
 - c. To decrease water age
13. Which is a common type of mixing system in a water storage tank?
- a. Batch mixing system
 - b. Static mixing system
 - c. Passive mixing system
14. Which of the following is NOT a typical tank feature?
- a. Vent
 - b. Drain
 - c. Pump
 - d. Level sensor
15. Which is considered the most important factor in water quality deterioration?
- a. Overflow events
 - b. Wall penetrations
 - c. Water age

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