



**City of Winston-Salem University
WSFC Utilities Session Quiz**

September 16, 2021

1. The total treatment capacity of our WSFC Utilities water plants is:
 - a. 91 MGD
 - b. 25 MGD
 - c. 18 MGD
 - d. 48 MGD

2. Fluoride is added to the water to:
 - a. Disinfect the water
 - b. Provide corrosion protection for the water lines
 - c. To prevent dental caries (cavities)
 - d. Control the pH of the water

3. The water treatment process is a _____ process.
 - a. Physical
 - b. Biological
 - c. Chemical
 - d. Nuclear

4. The purpose for water tanks in the distribution system is:
 - a. Storage
 - b. Fire protection
 - c. To supply system pressure
 - d. All of the above

5. Which Utilities Field Operations division area is responsible for reading water meters?
 - a. Water Distribution
 - b. Meter Services
 - c. Technical Services
 - d. Wastewater Collection

6. Which of the following will cause sanitary sewer overflows?
 - a. Grease deposits
 - b. Roots
 - c. Debris
 - d. All of the above

7. Wastewater collection system employees are responsible for:
 - a. Cleaning and inspecting sewer mains
 - b. Reclaiming and maintaining easements
 - c. Responding to sewer stoppages and overflows
 - d. All of the above

8. The total treatment capacity of our WSFC Utilities wastewater plants is:
 - a. 15 MGD
 - b. 51 MGD
 - c. 21 MGD
 - d. 30 MGD

9. The wastewater treatment plants operate under a _____ permit issued by the NC Department of Environmental Quality, Division of Water Resources.
 - a. NRDC
 - b. NCWWTP
 - c. NPDES
 - d. NCDWQ

10. The wastewater treatment process is a _____ process.
 - a. Physical
 - b. Biological
 - c. Chemical
 - d. Nuclear

11. What is the name of the liquid that is removed from the bottom of lined landfills?
 - a. Sludge
 - b. Leachate
 - c. Clarified Water
 - d. Wastewater

12. Which of the following represents the largest portion of the Solid Waste budget?
 - a. Operations
 - b. Personnel
 - c. Debt Service
 - d. Recycling

13. Where must scrap tires be taken to be recycled in Forsyth County?
 - a. Pfafftown Recycling Center
 - b. Kernersville Recycling Center
 - c. Hanes Mill Road Landfill
 - d. 3RC EnviroStation

True or False

14. The WSFC Utility Commission is an elected board that is responsible for adopting appropriate rates and extension policies.

15. It is okay to pour grease from my frying pan down the drain as long as I run hot water after doing so.

16. The Technical Services area maintains water quality in the distribution system by flushing lines and managing the backflow prevention program.

17. All hydrants leak if knocked over.

18. Biosolids are produced at the wastewater plants from the sludge in the digesters which can be sold as a soil amendment.

19. Expenses incurred by Hanes Mill Road Landfill operations are paid directly out of the City of Winston-Salem General Fund (i.e. local tax money is used).

20. The state of North Carolina imposes a tax on every ton of solid waste disposed of in this state.

21. The Hanes Mill Road Landfill has a liner and leachate collection system that helps reduce the risk of groundwater contamination.



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Answer Key

1. A
2. C
3. C
4. D
5. B
6. D
7. D
8. B
9. C
10. B
11. B
12. A
13. C
14. False - members are appointed
15. False - hot water moves grease further down the pipe, where it eventually cools & contributes to backups
16. True
17. False - newer hydrants have dry barrels
18. True
19. False
20. True
21. True