Certification Boulevard



Test Your Knowledge of Collections & Distribution

- 1. What is the most important reason why the pumps in a Lift Station should not experience frequent starts and stops?
 - a. Not enough time for the pumps to be primed
 - b. Because of the power surge problems
 - c. Ultimately will result in premature failure of the check valve assembly
 - d. Ultimately will result in premature failure of the motor winding insulation
- 2. What should be done when a mechanical seal develops a leak?
 - a. It needs a new o-ring
 - b. Never repair it ... just replace it with a new one
 - c. May require re-lapping or it may have to be replaced
 - d. Something is wrong with the stuffing box
- 3. Given the following data, how many cubic yards of backfill are needed to fill a trench?
 - 5.25 feet wide
 - 14 yards long
 - 5.5 feet deep
 - a. 62 vd^3
 - b. 45 yd^3
 - c. 95 yd^3
 - d. 18 yd^3
- 4. Water seeping into a collection system pipe is called exfiltration. True or False
- 5. What type of machine is used to construct collection system pipelines when they are too difficult for trench excavations?
 - a. Pig
 - b. TV Device
 - c. Boring Machine
 - d. Backhoe Machine
- 6. What is the pipeline called that is installed on the discharge side of a sewage pump?
 - a. Suction
 - b. Sump
 - **c.** Gravity
 - d. Force main

- 7. Which type of sewer system contains both sanitary wastewater and storm water?
 - a. Domestic wastewater system
 - b. Combined sewer system
 - c. Separate collection system
 - d. Sewer system evaluation survey
- 8. Given the following data, what is the capacity of this wet well?
 - wet well diameter is 15 feet
 - bottom elevation of wet well is 82.71 feet
 - top elevation of wet well is 99.85 feet
 - a. 22,645 gallons
 - b. 222,645 ft³
 - c. $332,043 \text{ ft}^3$
 - d. 44,391 gallons
- 9. Which gas will be located at the highest point of a manhole?
 - a. Carbon dioxide
 - b. Hydrogen sulfide
 - c. Methane
 - d. None they will all be at low levels
- 10. When a flap gate is mounted in a pipe, the flow will be allowed to travel in both directions? *True or False*

Thanks to my friend and counterpart, Ron Proulx, Assistant Division Manager, City of Orlando Public Works Department - Environmental Services Wastewater Division, for providing questions 1 and 2. Roy

Please forward your comments and sample questions for publication to:

Roy A. Pelletier, Assistant Division Manager City of Orlando Public Works Department Environmental Services Wastewater Division 5100 L.B. McLeod Road Orlando, Florida 32811 Phone: 407-246-2213

Fax: 407-246-2886 Cell: 407-716-2971

email: roy.pelletier@cityoforlando.net