

# Operator Quiz Fall 2022 – Mindful Maintenance

The following questions are designed for individuals/trainees pursuing certification as they prepare to take the ABC wastewater operator test. It is also designed for existing operators to test their knowledge. Each issue of *Clear Waters* will have more questions from a different process of wastewater treatment. Good luck!

1. The main function of a/an ( \_\_\_\_\_ ) is to provide overcurrent protection of an electrical circuit.

- a. Ammeter
- b. Transformer
- c. Fuse
- d. Multimeter

2. What is NOT a function of a lantern ring?

- a. Protection
- b. Cooling
- c. Lubrication
- d. Tightening

3. ( \_\_\_\_\_ ) is a condition that is the result of low pressures within a pump, which creates boiling water and vapor bubbles. Damage to the impeller can happen when these vapor bubbles burst.

- a. Air lock
- b. Plugging
- c. Cavitation
- d. Plugging

4. It is a valve that prevents the flow of fluid backward through a pump.

- a. Gate valve
- b. Check valve
- c. Globe valve
- d. Oil valve

5. Which valve should always be either fully open or fully closed?

- a. Gate valve
- b. Globe valve
- c. Butterfly valve
- d. Oil valve

6. A fluid's viscosity is the rate it will flow at a known:

- a. Temperature
- b. Pressure
- c. Time
- d. Rate

7. Before working on a piece of equipment it should be:

- a. Inspected for warranty
- b. Shut down, locked out and tagged
- c. Broken
- d. Leaking

8. The purpose of a turnbuckle on the stay rod of a trickling filter is to:

- a. Control speed of drain
- b. Support the distributor arm
- c. Adjust and level the distributor arm
- d. Adjust the return rate

9. In an electrical circuit a/an ( \_\_\_\_\_ ) is used to measure current.

- a. Ammeter
- b. Transformer
- c. Ohmmeter
- d. Capacitor

10. Pump packing should:

- a. Be changed every week
- b. Be tightened to a drip
- c. Be greased when worn
- d. Not allow for any leaking

Answers below.

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*For those who have questions concerning operator certification requirements and scheduling, please contact Carolyn Steinhauer at 315-422-7811 ext. 4, [carolyn@nywea.org](mailto:carolyn@nywea.org), or visit [www.nywea.org](http://www.nywea.org).*



Answers: 1. (c) Fuse. 2. (d) Tightening. 3. (c) Cavitation. 4. (b) Check valve. 5. (a) Gate valve. 6. (a) Temperature. 7. (b) Shut down, locked out and tagged. 8. (c) Adjusting and level the distributor arm. 9. (a) Ammeter. 10. (b) Tightened to a drip.