		11.00					
1.	The primary	difference betw	een a chemical	metering numi	o and a cen	tritugal bum	n is

- a. a chemical metering pump requires routine maintenance
- b. a chemical metering pump operates on single phase AC current
- c. a centrifugal pump has a rotating impeller
- d. a centrifugal pump operates on 3 phase AC current
- 2. Which of the following is likely to occur if a valve is left closed on the discharge side of a chemical feed pump?
 - a. The discharge piping/fittings will burst
 - b. The pump will automatically shut down
 - c. The pump will continue to run but no liquid will be injected
 - d. The impeller will start to spin backwards
- 3. True or false? Advancements in technology now allow uninterrupted operation of chemical feed pumps without the need for calibration checks.
 - a. True
 - b. False
- 4. On a diaphragm metering pump the flexible diaphragm and the ball check valves must be routinely replaced. On a peristaltic pump the _____ must be routinely replaced.
 - a. Impeller
 - b. Rollers
 - c. Tubing
 - d. All of the above
- 5. If a chemical feed pump injects 200 milliliters per minute of a sodium hypochlorite solution, estimate how many gallons of sodium hypochlorite will be used over a 30 day period if it pumps for 16 hours every day.
 - a. 0.416
 - b. 416
 - c. 1,522
 - d. 15,218

Solution:

(200ml/min) X (1L/1000ml) X (1gal/3.785L) X (60min/hr) X (16hr/day) X (30 days)

- = 5,760,000 / 3785
- = 1,521.8 gallons