

BWD Sample Exam

1. Which of the following should always be included on a sample label?
 - A. The name or initials of the person running the analysis
 - B. The weather conditions when the sample was collected
 - C. The date, time, and location of the sample collection
 - D. The name and address of the treatment facility
2. The most commonly used disinfecting agent is:
 - A. Sodium hypochlorite
 - B. Sodium thiosulphate
 - C. Ammonia
 - D. Sodium chloride
3. What is the difference in the amount of chlorine applied and the residual chlorine remaining after a period of time called?
 - A. Demand
 - B. Dosage
 - C. Residual
 - D. Remainder
4. No water is being added to a rectangular storage tank that is 3 metres wide by 6 metres long. A pump lowers the water level by 1 metre in one hour. What is the pump capacity in litres per second?
 - A. 0.71 L/sec
 - B. 2.36 L/sec
 - C. 5.00 L/sec
 - D. 7.89 L/sec
5. The water level in an elevated tank is 30 metres above the ground surface. The resultant pressure at a tap on a line at the ground level is
 - A. 103.4 kPa
 - B. 224.1 kPa
 - C. 294.2 kPa
 - D. 517.1 kPa

6. How many litres of 12% sodium hypochlorite would be needed to disinfect a water tank with a chlorine residual of 25 ppm if the tank is 3 m long and 150 cm in diameter?
- A. 1.1 L
 - B. 4.8 L
 - C. 22 L
 - D. 48 L
7. Over a 4-year period, the hour meter on a pump had the following readings at the end of each year
- 1st year 976.3
 - 2nd year 1,325.8
 - 3rd year 2,100.1
 - 4th year 2,371.4

How many hours did the pump run during the third year?

- A. 349.5 hours
 - B. 364.3 hours
 - C. 774.3 hours
 - D. 830.2 hours
8. Freezing of water tanks in the winter can be minimized by
- A. Continuous pumping and changing drawdown
 - B. Raising the chlorine residual
 - C. Lowering the chlorine residual
 - D. Painting the tank a dark colour
9. What needs to be done to a storage tank to protect the water from contamination?
- A. It should be constructed below the ground surface
 - B. It should be provided with an air-tight seal
 - C. It should have cathodic protection
 - D. It should have screened vents and overflows
10. Turbidity refers to the _____ of the water.
- A. Clarity (cloudiness)
 - B. Odour
 - C. Pressure
 - D. Temperature

11. What should an operator do when taking a sample from an inside tap for bacteriological analysis?
- A. Always rinse out the bottle with water before taking the sample
 - B. Let the water run for several minutes before filling the bottle
 - C. Take no special precautions in order to have a more representative sample
 - D. Take the sample as quickly as possible after the tap is turned on
12. Why should a bulk water delivery operator measure and record all truckloads?
- A. To monitor the water usage, production, and loss
 - B. To recycle and reuse the water
 - C. To provide documentation for increasing the system's budget
 - D. To provide information for insurance records
13. The operator of a water delivery truck must clean and disinfect all internal areas of the tank at least:
- A. Once every 3 months
 - B. Once every 6 months
 - C. Once every 9 months
 - D. Once every 12 months
14. How long can drinking water be retained in a delivery truck?
- A. Up to 12 hours
 - B. Up to 24 hours
 - C. Up to 48 hours
 - D. Up to one week provided the truck has been disinfected
15. What is the difference between a total coliforms and an E.coli test?
- A. The total coliform test indicates possible contamination and the E.coli test indicates if the contamination originates from animals or humans
 - B. There is really no difference in what these two tests indicate, and either is acceptable
 - C. Total coliform test are for the presence of pathogenic organisms and E.coli test indicates how many are present
 - D. The E.coli test results are always higher than the total coliform test results
16. What is a cross-connection?
- A. A physical connection between a potable and non-potable water supply
 - B. A special type of tap for the outdoors
 - C. When two systems are connected with a pressure regulating valve
 - D. When two approved water systems are connected for fire protection

17. Bacteriological water samples from the fill line and truck delivery hose must be submitted:
- A. Daily
 - B. Weekly
 - C. Every two weeks
 - D. Monthly
18. A bulk water Operator's role is to:
- A. To provide safe, clean water to your customers.
 - B. To carry out operations in accordance with guidelines, protocols and regulations.
 - C. To stay up-to-date on good practices.
 - D. All the answers are correct
19. When bulk sodium hypochlorite is used for disinfection it is usually what strength?
- A. Less than 1%
 - B. 10 – 15%
 - C. 25 - 50%
 - D. 65 - 75%
20. The water fill pipe and the sewage pump-out connection on a house should be:
- A. Separated by at least 0.3 metres
 - B. Located with the sewage pipe above the water pipe
 - C. Located with the water pipe above the sewage pipe
 - D. Located on different walls
21. When can a sewage truck driver begin operating a water delivery truck?
- A. After taking a shower
 - B. The next day
 - C. After written approval of the EHO
 - D. Never
22. Hoses, nozzles, couplers, fittings, etc. Should be disinfected using a solution of chlorine that is at least
- A. 25 mg/L
 - B. 50 mg/L
 - C. 100 mg/L
 - D. full strength bleach

23. Water truck tanks should have
- A. Inspection and cleaning ports, stainless steel lids, air tight closures
 - B. screened vents, lockable lids, emergency locator beacons
 - C. Lockable lids, inspection and cleaning ports, and screened vents
 - D. Stainless steel lids, screened vents, two-way radio
24. Daily vehicle inspection needs to be:
- A. Before starting the engine
 - B. Before operating the vehicle
 - C. During operation of the vehicle
 - D. All the answers are correct
25. A Boil water order:
- A. May be issued verbally and then followed by a written order
 - B. All the answers are correct
 - C. May be rescinded after the health officer has determined that the drinking water no longer presents a health or safety risk
 - D. Is enforceable by law

Answer Key

1. C
2. A
3. A
4. C
5. C
6. A
7. C
8. A
9. D
- 10.A
- 11.B
- 12.A
- 13.B
- 14.B
- 15.A
- 16.A
- 17.C
- 18.D
- 19.B
- 20.D
- 21.C
- 22.B
- 23.C
- 24.D
- 25.B