

OIT Sample Exam

1. What are two of the most important safety concerns when entering a confined space?
 - A. Lack of oxygen and presence of hazardous gases
 - B. Chlorine residual and turbidity
 - C. Bad odours and claustrophobia
 - D. Very high or very low temperatures
2. What is the impact of lead in drinking water?
 - A. It causes staining of clothes
 - B. It causes filters to plug up
 - C. It is harmful to human health
 - D. It is corrosive
3. The most important reason for Operators to maintain the quality of drinking water is to:
 - A. Assure good public relations
 - B. Conform to standards imposed by the government
 - C. Prevent possible lawsuits
 - D. Safeguard public health
4. A reservoir has a width of 6 m and a length of 18 m. What is the area of the floor?
 - A. 104 m²
 - B. 108 m²
 - C. 184 m²
 - D. 204 m²
5. What is indicated if the chlorine demand suddenly jumps from 0.9 mg/L to 3.0 mg/L in a well supply?
 - A. More water is being pumped
 - B. Over chlorination
 - C. Possible contamination
 - D. Chlorine concentration is low
6. What must aerobic organisms have to live and multiply?
 - A. Oxygen
 - B. Hydrogen sulphide
 - C. Carbon monoxide
 - D. Methane
7. Check valves are used to:
 - A. Stop flow in any direction
 - B. Regulate flow velocity
 - C. Permit air to escape from the pipe
 - D. Permit flow in one direction only

8. When working with chemicals safe handling and first aid information can be found in what document?
- A. Material Safety Data Sheet
 - B. Dangerous Goods Manifest
 - C. Operational Guidelines
 - D. Chemical Use Report
9. The inlet of a pump is called the:
- A. Strainer
 - B. Suction
 - C. Discharge
 - D. Adaptor
10. Which of the following maintenance practices provides the best indication of the condition of a sewer pipe?
- A. High pressure cleaning
 - B. Closed circuit camera inspection
 - C. Mechanical cleaning
 - D. Sewer lamping
11. Cross-connection between potable water supplies and sources of contamination such as wastewater must be prevented by:
- A. Securing all influent and effluent valves
 - B. Two-way check valves
 - C. Protecting the plant from vandalism
 - D. An approved backflow prevention device
12. What is static head?
- A. The energy of motion in the water
 - B. The pressure in the line due to friction
 - C. The pressure due to the elevation of the water
 - D. The pressure due to excess sludge
13. The most commonly used test to measure the organic strength of wastewater is:
- A. The biochemical oxygen demand (BOD) test
 - B. The pH test
 - C. The total suspended solids (TSS) test
 - D. The chlorine residual test
14. During a 24-hour period, the minimum wastewater flow usually occurs closest to:
- A. 12:00 hrs
 - B. 04:00 hrs
 - C. 09:00 hrs
 - D. 18:00 hrs

15. The wastewater level in a tank is dropping at a rate of 0.3 m/hr from an influent tank that is 9.6 m long, 7.6 m wide, and 4.6 m high. How many litres of wastewater flow out of the tank in one hour?
- A. 2,650 L
 - B. 2,805 L
 - C. 17,328 L
 - D. 21,888 L
16. What is the most commonly used chemical for disinfection of water?
- A. Ozone
 - B. Ultraviolet light
 - C. Sodium hypochlorite
 - D. Potassium permanganate
17. The chlorine dosage of a town's water source is 8.0 mg/l. The chlorine demand for the water is 4.3 mg/l. What is the chlorine residual?
- A. 0 mg/l
 - B. 0.3 mg/l
 - C. 3.7 mg/l
 - D. 7.3 mg/l
18. The discharge of an organic pollutant into a river will cause the depletion of:
- A. Hardness
 - B. Temperature
 - C. Dissolved oxygen
 - D. Carbon dioxide
19. Chlorine gas is:
- A. Lighter than air
 - B. Red in colour
 - C. Heavier than air
 - D. Pink in colour
20. Pressure is usually measured in:
- A. BTU
 - B. MGD
 - C. Mg/L
 - D. PSI
21. Which Provincial/Territorial Ministry covers drinking water related regulations?
- A. Environment
 - B. Health
 - C. Forests
 - D. Municipal

22. Watermains should be flushed:
- A. Often enough to maintain water quality
 - B. Only when complaints are received
 - C. Weekly
 - D. Monthly
23. What type of plan is a water purveyor required to have under provincial/territorial regulations?
- A. An emergency response plan
 - B. A succession plan
 - C. An insurance plan
 - D. None of the answers are correct
24. Operators should not use water to extinguish fires involving electrical equipment as water:
- A. May damage hot insulators
 - B. May transmit electrical shock to the Operator
 - C. Will cause harmful steam
 - D. Will start a chemical reaction
25. An Operator drove 66.9 km on Monday, 18 km on Tuesday, 77.7 km on Wednesday, 0 km on Thursday, and 39.9 km on Friday. What is the average number of kilometres driven per day during the five-day work week?
- A. 40.5 km
 - B. 56.5 km
 - C. 164.6 km
 - D. 201.1 km

Answer Key

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