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Continuing Education Course #501
Water Reuse Applications

1. What is water reuse?
 - a. Using water again and again indefinitely with no discharge
 - b. Using treated wastewater as a water source
 - c. Zero liquid discharge
2. Which is NOT another word for reused water?
 - a. Recycled water
 - b. Reclaimed water
 - c. Rescued Water
3. Which is the first known example of water reuse?
 - a. Covering farmland with discarded water and waste
 - b. Indoor plumbing systems
 - c. Boiling water to avoid illness
4. Which is NOT a motivation for water reuse?
 - a. Decrease water supply demands
 - b. Minimize wastewater discharges
 - c. Dilute pollutant concentrations
5. Which is the most popular water reuse application?
 - a. Industrial reuse
 - b. Agricultural reuse
 - c. Environmental reuse
6. Which reuse application normally requires a greater level of treatment?
 - a. Pasture grass
 - b. Landscaping
 - c. Food crops
7. Which formula can be used to calculate pollutant concentrations when combining different water sources?
 - a. Mixing formula
 - b. Water quality index
 - c. Dosing formula
8. What are the three basic options for discharging industrial wastewater?
 - a. Direct, indirect, and greywater
 - b. Direct, indirect, and zero liquid
 - c. Direct, recycled, and biosludge

9. What is a name for salvaging lost products from wastewater?
- a. Offsite disposal
 - b. Commercial reuse
 - c. Resource recovery
10. Which is NOT a reason to recover phosphorus from wastewater?
- a. Avoid nitrification
 - b. Avoid eutrophication
 - c. Recover a valuable resource
 - d. Minimize geopolitical issues
11. What is a common color for reclaimed water pipes?
- a. Green
 - b. Purple
 - c. Blue
12. Which is a common application of urban reuse?
- a. Aquaculture
 - b. Steam generation
 - c. Toilet flushing
13. What is the formula for Net Zero Water?
- a. $\text{Alternative water use} + \text{Water returned} > \text{Freshwater consumption}$
 - b. $\text{Alternative water use} - \text{Water returned} > \text{Freshwater consumption}$
 - c. $\text{Alternative water use} + \text{Water returned} < \text{Freshwater consumption}$
14. Which type of plant is most sensitive to reclaim water quality?
- a. Turfgrass
 - b. Trees
 - c. Bushes
 - d. Flowers
15. What are the three main types of potable reuse?
- a. Direct, recharge, and unplanned
 - b. Indirect, direct, and unplanned
 - c. Indirect, direct, and environmental
16. Which is true of indirect potable reuse?
- a. Sends wastewater straight to the water treatment plant
 - b. Uses an environmental buffer
 - c. Uses backflow prevention
17. Which of the following is NOT a typical disinfection method?
- a. Free Chlorine
 - b. Chloramines
 - c. UV
 - d. Ultrafiltration
18. What value is needed from an EPA table to calculate the contact time for disinfection?
- a. Baffling factor
 - b. Maximum velocity

c. Chlorine effectiveness

19. Which is a common application of environmental reuse?

a. Constructed wetland

b. "De facto" reuse

c. Golf course irrigation

20. Which form of water reuse can counter saltwater intrusion?

a. Urban reuse

b. Groundwater recharge

c. Agricultural

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