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Examination for Small Water Design Chapters 1 thru 4

CHAPTER 1 - INTRODUCTION

1. This manual is applicable to average daily design flow rates of how much?
 - a) 380,000 gallons per day or less
 - b) 100,000 gallons per day or less
 - c) 308,000 liters per day or less
 - d) 100,000 liters per day or less

2. What category would a public water system be in if it regularly serves 40 different people for 7 months out of the year?
 - a) Community water system
 - b) Non-community, non-transient water system
 - c) Non-community, transient water system
 - d) None of the above

CHAPTER 2 – PRELIMINARY PLANNING AND DESIGN

3. Which of the following is not included in the list of agencies involved in the approval process?
 - a) State highway department
 - b) Water utility company
 - c) Local pollution control agency
 - d) Electric power utility company

4. What is cited as perhaps the most common shortcoming in the design of a small water system?
 - a) Failure to anticipate failures
 - b) Designing a system more complicated than necessary
 - c) Maintaining up-to-date copies of all pertinent information
 - d) Selection of optimum design technology

CHAPTER 3 – WATER QUALITY REQUIREMENTS

5. How many contaminants is the USEPA required to consider for regulation every 5 years?
- a) 3
 - b) 25
 - c) 5
 - d) 15
6. The USEPA Administrator is empowered by the SDWA to consider economic feasibility as well as public health in establishing maximum contaminant levels?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
7. What is the maximum surface water turbidity units allowable at any time?
- a) 5.0 TU
 - b) 0.5 TU
 - c) 15 TU
 - d) 1.0 TU
8. What is the MCL for arsenic?
- a) 0.006 mg/L
 - b) 0.05 mg/L
 - c) 2.00 mg/L
 - d) 0.004 mg/L
9. Which of the following organics has the highest MCL?
- a) Picloram
 - b) o-Dichlorobenzene
 - c) Glyphosate
 - d) Monochlorobenzene
10. As with primary regulations, secondary drinking water regulations are enforceable at the federal level?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
11. What size is the entamoeba histolytica during the cyst stage?
- a) 1-4 micrometers
 - b) 12-16 micrometers
 - c) 4-8 micrometers
 - d) 8-12 micrometers

12. What is the organism responsible for Montezuma's revenge?
- a) Leptospira
 - b) Vibrio cholera
 - c) Escherichia coli
 - d) Salmonella
13. What is the water treatment coagulant most commonly used in the United States?
- a) Aluminum sulfate
 - b) Aluminum oxide
 - c) Aluminum sulfide
 - d) Aluminum hydroxide
14. What would the hardness classification be for water containing 119 mg/L as calcium carbonate?
- a) Hard
 - b) Very hard
 - c) Moderately hard
 - d) Slightly hard
15. Most natural waters have a pH in what range?
- a) 4.5 to 6.5
 - b) 6.5 to 8.5
 - c) 2.5 to 4.5
 - d) 8.5 to 9.5

CHAPTER 4 – WATER QUANTITY REQUIREMENTS

16. Which of the following is not listed as a specific water use rate that may be considered important?
- a) Average annual use
 - b) Maximum daily use
 - c) Average weekly use
 - d) Average hourly use
17. In the United States, average municipal water use per capita per day is how much?
- a) 75 to 100 gallons
 - b) 100 to 175 gallons
 - c) 175 to 300 gallons
 - d) 300 to 375 gallons
18. In all but one of the references listed, what use sector has the highest percentage of average daily interior residential use?
- a) Toilet flushing
 - b) Laundry
 - c) Dishwashing
 - d) Bathing

19. Depending on community size, fire flows must be maintained for how long?
- a) 7 to 10 hours
 - b) 4 to 7 hours
 - c) 4 to 10 hours
 - d) 8 to 12 hours
20. For a population served by a rural water system, what number of service connections would fall within the 'typical' range per mile?
- a) 6
 - b) 4
 - c) 1
 - d) 9
21. What maximum daily rate per residential connection was suggested by Hughes and Isrealson (1976)?
- a) 1.2 gpm
 - b) 0.8 gpm
 - c) 1.0 gpm
 - d) 0.6 gpm
22. Which of the following recreation area facility types has the lowest water requirement per day?
- a) Trailer park with individual bath and sewer connection
 - b) Self-serviced laundry facility
 - c) Picnic area with toilet facilities only
 - d) Day camp with no meals served
23. What projected traffic volume should be used in the calculation of rest area water use rates?
- a) 20-year
 - b) 16-year
 - c) 25-year
 - d) 12-year



Answer Sheet for Small Water System Design
 TPDH-00030

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Please completely fill in one box for each answer

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I hereby certify that I have studied the course materials, and the above answers are my own.
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