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Examination for Water Supply Sources and General Considerations

CHAPTER 1 - GENERAL

1. What is the effective population in which there are 9 nonresidents and 17 residents?
 - a) 14
 - b) 20
 - c) 26
 - d) 29

2. The specific capacity of a well is expressed in what?
 - a) Gps/in
 - b) Lpm/m
 - c) Gpm/ft
 - d) Gps/ft

CHAPTER 2 – WATER REQUIREMENTS

3. Underground sprinkler systems should receive consideration only in areas where rainfall is less than what amount annually?
 - a) 25 inches
 - b) 12 inches
 - c) 24 inches
 - d) 28 inches

4. Multiple check valves are acceptable backflow prevention devices?
 - a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

CHAPTER 3 – CAPACITY OF WATER SUPPLY SYSTEM

5. What is the capacity factor for an effective population of 40,000?
 - a) 1.15
 - b) 1.00
 - c) 1.10
 - d) 1.05

CHAPTER 4 – WATER SUPPLY SOURCES

6. Which of the following would be classified as ‘hard to very hard’ water?
- a) 420 mg/l as CaCO₃
 - b) 203 mg/l as CaCO₃
 - c) 120 mg/l as CaCO₃
 - d) 320 mg/l as CaCO₃

CHAPTER 5 – GROUND WATER SUPPLIES

7. What type of material is the primary target for the location of wells?
- a) Dense rocks
 - b) Granite
 - c) Porous gravel or sand
 - d) Fractured rock
8. What type of well uses a rotating earth auger bracket as the method of construction?
- a) Driven
 - b) Bored
 - c) Jetted
 - d) Drilled
9. What is the minimum distance that a well must be placed from a septic tank?
- a) 50 feet
 - b) 150 feet
 - c) 75 feet
 - d) 100 feet
10. What is another term for ‘dynamic water level’?
- a) Static level
 - b) Drawdown level
 - c) Pumping level
 - d) Permeability level
11. Which of the following is not listed as one of the three most common methods of aquifer testing?
- a) Pumping method
 - b) Water input test
 - c) Recovery method
 - d) Drawdown method
12. An anticipated well yield of 700 gpm will have an optimum well casing of what size?
- a) 10” OD
 - b) 14” ID
 - c) 12” ID
 - d) 14” OD

13. What will the percentage of yield change be if a well diameter is changed from 24" to 48"?

- a) 7% increase
- b) 12% increase
- c) 100% increase
- d) 87% increase

14. For a homogeneous, confined, artesian aquifer, what percentage of the aquifer should be screened?

- a) 50 to 60 percent
- b) 60 to 70 percent
- c) 80 to 90 percent
- d) 70 to 80 percent

15. What is the minimum length that a gravel pack should extend above the top of the screen?

- a) 8 feet
- b) 5 feet
- c) 10 feet
- d) 12 feet

16. How much minimum clearance beyond any building projection shall be provided for wells?

- a) 2 feet
- b) 4 feet
- c) 3 feet
- d) 6 feet

17. In table 5-5, what type of centrifugal pump can achieve the greatest usual well pumping depth?

- a) Deep well vertical line shaft turbine
- b) Deep well straight centrifugal
- c) Deep well submersible turbine
- d) Deep well regenerative vane turbine

18. Which of the following is not listed as a method of development in unconsolidated formations?

- a) Overpumping
- b) Mechanical striking
- c) High velocity jetting
- d) Air surging

CHAPTER 6 – SURFACE WATER SUPPLIES

19. Streams west of the 95th meridian often have dissolved mineral solids in what range?
- a) 2700 to 3600 mg/l
 - b) 200 to 700 mg/l
 - c) 1800 to 2700 mg/l
 - d) 700 to 1800 mg/l

CHAPTER 7 - INTAKES

20. Inlet velocities in what range are desirable for avoiding ice clogging of intakes?
- a) 0.25 to 0.50 fps
 - b) 0.50 to 0.75 fps
 - c) 0.10 to 0.25 fps
 - d) 0.50 to 1.00 fps
21. Intakes on meandering streams should be located at inside bends?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

CHAPTER 8 – RAW WATER PUMPING FACILITIES

22. Priming equipment is not always required when suction lift is employed?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
23. Ventilation systems should be capable of removing waste heat from the motors without allowing more than how much rise in temperature of the air in the pump station?
- a) 15° F
 - b) 20° F
 - c) 10° F
 - d) 5° F

CHAPTER 9 – WATER SYSTEM DESIGN PROCEDURE

24. Standard equipment that can be supplied by several manufacturers should be specified?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

APPENDIX B – SAMPLE WELL DESIGN

25. What is the minimum distribution system pressure to be maintained in the sample well design?

- a) 50 psi
- b) 30 psi
- c) 40 psi
- d) 60 psi



Answer Sheet for Water Supply Sources and General Considerations
 TPDH-00033

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