

UNIT 3 - Water Study Guide -KEY

1.) Vocabulary:

Infiltration - the movement of surface water into rock or soil through cracks and pore spaces.

Bed Load - the part of a stream's load of solid material that is made up of sediment too large to be carried in suspension.

Delta - an accumulation of sediment formed where a stream enters a lake or ocean

Divide - an imaginary line that separates the drainage basin of one stream from another

Porosity - the percentage of the total amount of rock or soil that consists of pore space.

Permeability - a material's ability to release a fluid.

Sinkhole - a depression produced in a region where groundwater has removed soluble rock.

Artesian Well - any formation in which groundwater rises on its own under pressure

Well - a hole bored into the zone of saturation

Transpiration - plants absorb water and release it into the atmosphere

Capacity - the maximum load a stream can carry

Floodplain - the side-to-side cutting of a stream eventually producing a flat valley floor

2.) Where/How do springs form? Naturally flowing ground water reaches the surface of the Earth

3.) What is a major cause of floods? Rapid spring melting of snow, heavy rainfall over a long time

4.) How do caverns form? Hollowed out by erosion from underground streams

5.) What is the base level of a stream? The bottom level of a stream where it flows into another, larger body of water

6.) What is the gradient of a stream? The slope of a stream

7.) Which US river has the largest drainage basin? Mississippi

8.) How are sinkholes formed? Area where ground water has removed the rock

9.) How are geysers formed? A hot spring where water shoots out intermittently due to a build up of pressure under the ground

10.) How is the water cycle balanced? Explain. The amount of water in the air from evaporation and transpiration equals the amount of water that condenses and falls back to Earth as precipitation

11.) What is the discharge of a stream? How does it increase? How much water a stream can move in one second over a certain distance; increase speed or depth of the stream

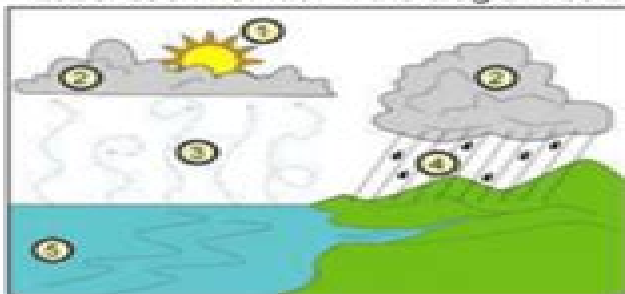
12.) A steep gradient causes the discharge to be _____, increased

13.) What are the different types of loads that a stream can carry? Solution – stuff that's dissolved in the water; suspension – stuff that's floating in the water; scooting/rolling – stuff that's pushed/rolled along the bottom due to the movement of the water

14.) Explain a drainage basin. Land area that contributes water to a stream/river; we are in the Yadkin/Pee-Dee river basin

15.) Where do you find groundwater? Groundwater is found beneath the Earth's surface in soil pore spaces and in the fractures of rock formations.

Label each number in the diagram below.



1. solar radiation
2. condensation
3. evaporation
4. precipitation
5. ocean reservoir

Grade 1 Water Study Guide

VM Jensen



Grade 1 Water Study Guide:

Practice Exams Water Distribution Operator Certification Ken Tesh, 2018-08-20 Who is this book for This book is for anyone studying for the Grade 1 or Grade 2 Water Distribution Operator Certification Exam It s intended for newer operators who are pursuing the first two certification levels What s inside this book This book contains three full length practice tests that will help operators and students prepare for the Water Distribution Operator Certification Exams Each practice exam contains 100 questions which test your knowledge of water distribution concepts and your ability to solve relevant math problems There are a total of 300 questions in this book The book includes an answer key for all 3 exams It also contains step by step solutions for the math problems If you re preparing to take the operator certification test this book is a helpful study guide Topics Covered in Book Water Math Disinfection Corrosion Storage Facilities Water Mains Wells Pumps Valves Hydrants Fittings Water Meters Backflow Service Connections Drinking Water Regulations Hydraulics Safety Sampling Water Quality Water Sources Operations Maintenance Leak Detection Disinfection By products and System Maps and Layout

Handbook for Waterworks Operator Certification Frank R. Spellman, 2000-11-06 This three volume series is designed to prepare waterworks operators for certification and licensure exams Volume 1 is the only such volume based on the recently amended Safe Drinking Water Act and provides the tools to understand the microbiological and chemical hazards of water in light of the quality standards treatment plants must achieve With its clear explanations of basic math hydraulics electricity and plant processes it prepares the drinking water plant operator for further study of all aspects of drinking water operations including purification and distribution Abundant cases problems and a full scale battery of examination questions enable the reader to apply the book s lessons into practice both on the job and in the classroom Volume 2 is designed to give the experienced operator the means to advance to higher levels Its content has been selected and organized in accord with SDWA requirements for the continuing education of operators After reviewing basic math this volume presents information and calculations for critical areas of operator responsibility from intake disinfection and pumping through odor control and distribution Self check questions and a final examination enable the reader to monitor progress and prepare for certification and licensure testing Volume 3 is a forthcoming title for the year 2001 and is intended for advanced operators It represents an in depth treatment of plant processes and operations and stresses troubleshooting and problem solving Questions and answers are included plus an entire sample test suitable for self study prior to licensure examinations *Resources in Education* ,1998-10 **Trade and Industrial Education** ,1972 Proceedings of the Board of Education Detroit (Mich.). Board of Education, 1913 **Circular - Office of Education** United States. Office of Education, 1930 **Films and Other Materials for Projection** Library of Congress, 1978 **Quick Bibliography Series** ,1976 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents, 1978 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications

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