

AGEN 120
Water Supply and Sanitation
Spring 2010

Final Examination Study Guide

Prepared By

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About 40% of the questions on the final exam will be from the following topics (the remaining 60% will include questions from material included on the 1st and 2nd exams):

- Know the basic concepts of water quality and pollution covered in class, including those that pertain to surface, flowing, impounded, and ground waters.
- Understand the need for water testing and list the types of tests often required for assessing the quality of water in farmsteads and rural home systems.
- Comprehend the differences among the various water disinfection methods covered in the lecture and laboratory.
- Identify when to use water softeners, the essential components of the system, and an outline of the process involved in softening hardwater.
- Understand the concepts discussed in the handout on Laboratory Exercise#10 on “Soil Percolation Tests and Site Requirements for Designing Individual Wastewater Treatment Systems” with emphasis on the design of absorption trenches.
- Understand the concepts discussed in the handout on Laboratory Exercise#11 on “NYS Department of Health Individual Residential Wastewater Treatment Systems Design Handbook” including sewage flows, soil and site appraisal, and components of on-site wastewater treatment systems.
- Understand the basic concepts covered in the class on wastewater treatment and the operation of wastewater treatment plants (points are outlined in the handout on “Clean Water for Today: What is Wastewater Treatment?” and the corresponding PowerPoint presentation covered in class).

Note: The final for AGEN 120 will be a comprehensive closed book exam with multiple choice and true/false questions.