Be familiar with the Boolean Algebra Properties and Theorems.

Be familiar with, knowledgeable of, and be able to solve problems associated with
Logic Gates Switch Analogies (Page 1 of Digital Logic Gates Handout)
Universal Capabilities of NAND Gates
Bubble Pushing & Logic Identities (Page 3 of Digital Logic Gates Handout)

Construct true tables for AND, OR, XOR, EQV, NAND, NOR gates.

Prove DeMorgan's Theorem using truth tables.

Design AND, OR, NOR, XOR, and EQV gates using only NAND gates (simple inverters are okay as needed).

Determine the Truth Tables for logic gate circuit diagrams (Digital Logic Gates Practice Problems #1). Use True Tables and/or Boolean Algebra to simplify the logic gate implementation where possible.

Solve Logic Input/Output Problems (Digital Electronics Quiz Problem #9).

Compare & Contrast and list advantages & disadvantages of serial and parallel pulse trains.

The following topics will **NOT** be covered on Test Seven:

Binary Number System
Octal Number System
Hexadecimal Number System
Binary / Decimal Conversions
Binary Arithmetic
ASCII Codes, Grey Codes, Binary Coded Decimals
Hamming Correction Codes
Positive and Negative Logic