1. (1 point each) Fifteen True/False questions concerning the history of computer science.
2. (2 points) Convert 24 bits into hexadecimal notation.
3. (2 points) Convert a length-6 hexadecimal notation into binary code.
4. (1 point each) For three sets, assume that every member of the set must be represented by a unique binary sequence of the same length. Specify the minimum number of bits that would be required to accomplish this for each set.
5. (2 points each) Specify the integer represented by each of three pieces of 8-bit two’s complement notation.
6. (3 points) Given a 32-bit sequence, representing a real number, check the range of values between which this real number lies (from four choices).
7. (6 points) Short essay question regarding ASCII code.
8. (6 points) Short essay question regarding CCITT Fax Conversion Code.
9. (1 point each) Four True/False questions about digital audio and digital video.
10. (2 points) Short RGB color question.
11. (2 points) Short CMY color question.
12. (1 point each) Specify the result of six Boolean operations.
13. (8 points) Complete the truth table for a logic diagram.
14. (1 point each) Three short-answer questions about transistors and logic gates.
15. (1 point each) Seven matching questions concerning CPUs.
16. (1 point each) Six short-answer questions concerning memory devices.
17. (6 points) Short essay question regarding memory devices.
18. (6 points) Short essay question regarding computer input devices.
19. (1 point each) Three short-answer questions about computer output devices.
20. (1 point each) Seven matching questions concerning touch screen technologies.
21. (1 point each) Two short-answer questions concerning parallel processing.