- 45. All the following are examples of hardware interfaces EXCEPT_____
 - (A) sensors
 - (B) touch screens
 - (C) pop-up menus
 - (D) Braille keyboards
- 46. A _____ is a device that is externally connected to, and under the control of the central processing unit.
 - (A) bistable
 - (B) peripheral
 - (C) disk controller
 - (D) memory controller
- 47. _____ is a primary storage device that may be programmed and reprogrammed by the user.
 - (A) RAM
 - (B) ROM
 - (C) PROM
 - (D) EPROM
- - (A) voice capture
 - (B) voice recognition
 - (C) voice response
 - (D) sound capture
- 49. To which category of software does Microsoft Works belong?
 - (A) custom-written
 - (B) customized
 - (C) integrated
 - (D) special purpose

- 50. Banks and other financial institutions utilize ______ technology that automatically verifies the identity of callers wishing to access their accounts.
 - (A) voice capture
 - (B) voice recognition
 - (C) voice response
 - (D) sound capture
- 51. In an airport, a system consisting of sensors, bar code readers and remote controls is MOST LIKELY used for
 - (A) aircraft boarding.
 - (B) baggage handling.
 - (C) border control.
 - (D) passenger check-in.
- Some _____ printers spray ink, while others use heat or lasers to create images.
 - (A) non-impact
 - (B) line
 - (C) impact
 - (D) hard-copy
- 53. A monitor is measured in the same way as a television is measured, that is
 - (A) vertically from the top corner to the bottom
 - (B) horizontally from the left corner to the right
 - (C) diagonally from one corner to the other
 - (D) in square units that indicate the area of the screen

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54. A(n) _____ printer is usually faster than a(n) _____ printer but sometimes slower than a printer.

- (A) dot-matrix, inkjet, laser
- (B) dot-matrix, laser, inkjet
- (C) inkjet, dot-matrix, laser
- (D) ink-jet, laser, dot-matrix
- 55. The ability of a computer to execute two or more programs at the same time, using one CPU is called
 - (A) multitasking
 - (B) multiprocessing
 - (C) microprocessing
 - (D) multiprogramming

56. Which of the following activity is NOT a function of an operating system?

- (A) file management
- (B) print management
- (C) memory management
- (D) process management

57. A train station may use a _____ system to notify passengers of schedule information or a train's status.

- (A) voice capture
- (B) voice recognition
- (C) voice response
- (D) sound capture

TEST 4

Problem-solving and Program Design

- 61. ALL the following are simple data types EXCEPT _____.
 - (A) character
 - (B) integer
 - (C) real
 - (D) string

- 58. Amazon, the US-based online retailer, allows third-party companies to use excess processing capacity on its computer system. This is an example of the _____processing mode?
 - (A) batch
 - (B) on-line
 - (C) real-time
 - (D) time-sharing

59. _____ is a character representation scheme.

- (A) ASCII
- (B) BCD
- (C) Sign and magnitude
- (D) Two's complement

60. The _____ representation of the base 10 value 23 is 0010 0011.

- (A) ASCII
- (B) BCD
- (C) sign and magnitude
- (D) two's complement

- 62. In flowcharting, which basic operation is a rectangle used to represent?
 - (A) decision
 - (B) input/output
 - (C) process/assignment
 - (D) storage

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63. Which of the following is NOT a significant part of a simple problem?

- (A) input
- (B) processing
- (C) output
- (D) solution
- During problem decomposition, expected results are documented in the ______ column in the defining diagram.
 - (A) input
 - (B) processing
 - (C) output
 - (D) storage
- Developing and representing algorithms are included in the ______ step in the problem solving process.
 - (A) first
 - (B) third
 - (C) fourth
 - (D) last
- 66. In which one of the following processes is a defining diagram used?
 - (A) Problem diagramming
 - (B) Problem partitioning
 - (C) Program definition
 - (D) Stepwise refinement
- 67. All the following are true about variables and constants EXCEPT that _____
 - (A) they have names called identifiers.
 - (B) their names refer to an area of memory.
 - (C) their names are created by the programmer.
 - (D) they can be used interchangeably.

68. Which of the following is an incorrect variable name?

- (A) 1stchoice
- (B) Firstchoice
- (C) firstChoice
- (D) FIRSTCHOICE
- 69. A _____ is a named location in memory, the value of which remains fixed.
 - (A) constant
 - (B) literal
 - (C) half-constant
 - (D) variable
- 70. Which data type is MOST appropriate for storing a value representing the weight of a newborn child?
 - (A) character
 - (B) integer
 - (C) real
 - (D) string
- 71. Which statement represents a characteristic of an algorithm?
 - (A) Has a precise number of steps.
 - (B) Always represent a part of a solution.
 - (C) Is always structured.
 - (D) Relates to programming only.
- 72. A value has been input. It must be doubled and the result stored. The initial value and the result must be displayed. Which algorithm segment is correct?
 - (A) double value, print value
 - (B) double value. print value print result
 - (C) double value, store result print product
 - (D) double value, store result print value, print result

8

73. Which condition will determine if n is of a higher value than ten?

(A) n >= 10

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RCC.

- (B) n > 10
- (C) n >= 10
- (D) n < 10
- 74. Consider the following: Five numbers are to be input (under the control of a loop). The biggest number must be determined and output. How many columns are necessary for the required trace table?
 - (A) 6
 - (B) 5
 - (C) 3
 - (D) 2

75. The number of _____ in an algorithm determines the number of rows in a trace table?

- (A) constants
- (B) calculations
- (C) passes
- (D) variables

76. The "AND" in the program statement "X

= 5 AND Y < 7" is an example of a(n)

____ operator.

- (A) arithmetic
- (B) boolean
- (C) comparison
- (D) logical

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77. Pseudocode is a _____ method of representing algorithms.

- (A) graphical
- (B) textual
- (C) verbal
- (D) visual

QUESTIONS 78 - 80 ARE BASED ON THE FOLLOWING NARRATIVE:

Five numbers are input using a for loop. As each is entered, it is doubled. The results are stored separately.

- 78. How many columns are required for a trace table for the algorithm?
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5

79. How many values should be in the first row of the trace table?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

80. How many values should be in the second column of the trace table?

- (A) 2
- (B) 3
- (C) 4
- (D) 5
- 9

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 - (A)

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- (B) 3
- (C) 4
- (D) 5

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