Take Test: Java\_Midterm\_ExamV5  
**Question 1** Software refers to:

|  |  |  |
| --- | --- | --- |
|  |  | Secondary storage. |
|  |  | Firmware. |
|  |  | Programs. |
|  |  | Applets. |

**Question 2** Which of the following is *not* part of the programming process?

|  |  |  |
| --- | --- | --- |
|  |  | Design |
|  |  | Testing |
|  |  | Debugging |
|  |  | All of these are parts of the programming process. |

**Question 3** \_\_\_\_\_\_\_ refers to the physical components that a computer is made of.

|  |  |  |
| --- | --- | --- |
|  |  | Device |
|  |  | System |
|  |  | Hardware |
|  |  | Software |

**Question 4** Another term for programs is:

|  |  |  |
| --- | --- | --- |
|  |  | Hardware. |
|  |  | Software. |
|  |  | Firmware. |
|  |  | Shareware. |

**Question 5** Application software refers to:

|  |  |  |
| --- | --- | --- |
|  |  | The operating system. |
|  |  | Pseudocode. |
|  |  | Key words. |
|  |  | The programs that make the computer useful to the user. |

**Question 6** Computer programming is:

|  |  |  |
| --- | --- | --- |
|  |  | An art. |
|  |  | A science. |
|  |  | Both of these. |
|  |  | Neither of these. |

**Question 7** Which of the following will compile a program called ReadIt?

|  |  |  |
| --- | --- | --- |
|  |  | java ReadIt.java |
|  |  | java ReadIt.javac |
|  |  | javac ReadIt.java |
|  |  | javac ReadIt.javac |

**Question 8** Variables are:

|  |  |  |
| --- | --- | --- |
|  |  | Symbolic names made up by the programmer that represents locations in the computer's RAM. |
|  |  | Reserved words. |
|  |  | Symbolic names made up by the programmer whose values cannot be changed. |
|  |  | Operators that perform operations on one or more operands. |

**Question 9** The original name for Java was:

|  |  |  |
| --- | --- | --- |
|  |  | Java. |
|  |  | HotJava. |
|  |  | Elm. |
|  |  | Oak. |

**Question 10** The data contained in an object is known as:

|  |  |  |
| --- | --- | --- |
|  |  | Methods. |
|  |  | Attributes. |
|  |  | Classes. |
|  |  | Atriums. |

**Question 11** Colons are used to indicate the end of a Java statement.

True

False

**Question 12** Encapsulation refers to the combining of data and code into a single object.

True

False

**Question 13** Character literals are enclosed in \_\_\_\_\_\_\_\_; string literals are enclosed in \_\_\_\_\_\_\_\_.

|  |  |  |
| --- | --- | --- |
|  |  | single quotes; single quotes |
|  |  | double quotes; double quotes |
|  |  | single quotes; double quotes |
|  |  | double quotes; single quotes |

**Question 14** In Java, \_\_\_\_\_\_\_\_ must be declared before they can be used.

|  |  |  |
| --- | --- | --- |
|  |  | Variables |
|  |  | Literals |
|  |  | Key words |
|  |  | Comments |

**Question 15** This is a value that is written into the code of a program.

|  |  |  |
| --- | --- | --- |
|  |  | Literal |
|  |  | Assignment statement |
|  |  | Variable |
|  |  | Operator |

**Question 16** To compile a program named First, use the following command:

|  |  |  |
| --- | --- | --- |
|  |  | java First.java |
|  |  | javac First |
|  |  | javac First.java |
|  |  | compile First.javac |

**Question 17** What is the result of the following expression?

|  |  |  |
| --- | --- | --- |
|  |  | 6 |
|  |  | 8 |
|  |  | 10 |
|  |  | 12 |

**Question 18** To print "Hello, world" on the monitor, use the following Java statement:

|  |  |  |
| --- | --- | --- |
|  |  | SystemOutPrintln("Hello, world"); |
|  |  | System.out.println{"Hello, world"} |
|  |  | System.out.println("Hello, world"); |
|  |  | Print "Hello, world"; |

**Question 19** Every Java application program must have:

|  |  |  |
| --- | --- | --- |
|  |  | A class named MAIN. |
|  |  | A method named main. |
|  |  | Comments. |
|  |  | Integer variables. |

**Question 20** If the following Java statements are executed, what will be displayed?  
System.out.println("The top three winners are\n");  
System.out.print("Jody, the Giant\n");  
System.out.print("Buffy, the Barbarian");  
System.out.println("Adelle, the Alligator");

|  |  |  |
| --- | --- | --- |
|  |  | The top three winners are Jody, the Giant Buffy, the Barbarian Adelle, the Alligator |
|  |  | The top three winners are Jody, the Giant\nBuffy, the BarbarianAdelle, the Alligator |
|  |  | The top three winners are Jody, the Giant\nBuffy, the BarbarianAdelle, and the Albino |
|  |  | The top three winners are Jody, the Giant Buffy, the BarbarianAdelle, the Alligator |

**Question 21** The term \_\_\_\_\_\_\_\_ typically refers to the device that displays console output.

|  |  |  |
| --- | --- | --- |
|  |  | Standard output device |
|  |  | Central processing unit |
|  |  | Secondary storage device |
|  |  | Liquid crystal display |

**Question 22** What is the result of the following expression?

|  |  |  |
| --- | --- | --- |
|  |  | -5 |
|  |  | 5 |
|  |  | 25 |
|  |  | -50 |

**Question 23** A Java program will not compile unless it contains the correct line numbers.

True

False

**Question 24** If the compiler encounters a statement that uses a variable before the variable is declared, an error will result.

True

False

**Question 25** Java is a case-insensitive language.

True

False

**Question 26** A block of code is enclosed in a set of:

|  |  |  |
| --- | --- | --- |
|  |  | braces { } |
|  |  | parentheses ( ) |
|  |  | double quotes " " |
|  |  | brackets [ ] |

**Question 27** In an if/else statement, if the boolean expression is false,

|  |  |  |
| --- | --- | --- |
|  |  | the first statement or block is executed. |
|  |  | the statement or block following the else is executed. |
|  |  | all statements or blocks are executed. |
|  |  | no statements or blocks are executed. |

**Question 28** What does the following code display?  
double x = 12.3798146;  
System.out.printf("%.2f\n", x);

|  |  |  |
| --- | --- | --- |
|  |  | 123798146 |
|  |  | 1238 |
|  |  | %12.38 |
|  |  | 12.38 |

**Question 29** What will be the value of charges after the following code is executed?

|  |  |  |
| --- | --- | --- |
|  |  | 7.00 |
|  |  | 14.00 |
|  |  | 21.00 |
|  |  | 28.00 |

**Question 30** What would be the value of discountRate after the following statements are executed?

|  |  |  |
| --- | --- | --- |
|  |  | .05 |
|  |  | .04 |
|  |  | .03 |
|  |  | 0 |

**Question 31** Which of the following is the correct boolean expression to test for: int x being a value between, but not including, 500 and 650, or int y not equal to 1000?

|  |  |  |
| --- | --- | --- |
|  |  | ((x >= 500 && x <= 650) && (y != 1000)) |
|  |  | ((x > 500 AND x < 650) OR !(y.equal(1000))) |
|  |  | ((x > 500 && x < 650) || (y != 1000)) |
|  |  | ((x < 500 && x > 650) || !(y == 1000)) |

**Question 32** Which one of the following is the not equal operator?

|  |  |  |
| --- | --- | --- |
|  |  | <> |
|  |  | NOT |
|  |  | \*& |
|  |  | != |

**Question 33** Which of the following will format 12.78 to display as 012.8?

|  |  |  |
| --- | --- | --- |
|  |  | 000.0 |
|  |  | #0.00 |
|  |  | ###.# |
|  |  | ##0.0% |

**Question 34** These operators use two operands:

|  |  |  |
| --- | --- | --- |
|  |  | Unary |
|  |  | Binary |
|  |  | Tertiary |
|  |  | None of these |

**Question 35** The switch statement is a:

|  |  |  |
| --- | --- | --- |
|  |  | Multiple alternative decision structure. |
|  |  | Nested decision structure. |
|  |  | Sequence structure. |
|  |  | Test expression. |

**Question 36** Because the || operator performs short-circuit evaluation, your boolean expression will generally be evaluated faster if the subexpression that is most likely to be true is on the left.

True

False

**Question 37** The if/else statement will execute one group of statements if its boolean expression is true or another group if its boolean expression is false.

True

False

**Question 38** Because the && operator performs short-circuit evaluation, your boolean expression will usually execute faster if the subexpression that is most likely false is on the left of the && operator.

True

False

**Question 39** A loop that executes as long as a particular condition exists is called a(n):

|  |  |  |
| --- | --- | --- |
|  |  | Sentinel loop. |
|  |  | Conditional loop. |
|  |  | Count-controlled loop. |
|  |  | Infinite loop. |

**Question 40** Assume that inputFile references a Scanner object that was used to open a file. Which of the following while loops shows the correct way to read data from the file until the end of the file is reached?

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Question 41** Each repetition of a loop is known as what?

|  |  |  |
| --- | --- | --- |
|  |  | An iteration |
|  |  | A cycle |
|  |  | An execution |
|  |  | A Lap |

**Question 42** How many times will the following for loop be executed?  
;

|  |  |  |
| --- | --- | --- |
|  |  | 1 |
|  |  | 10 |
|  |  | 11 |
|  |  | 0 |

**Question 43** The increment operator is:

|  |  |  |
| --- | --- | --- |
|  |  | ++ |
|  |  | -- |
|  |  | \*= |
|  |  | -= |

**Question 44** This is an item that separates other items.

|  |  |  |
| --- | --- | --- |
|  |  | Controller |
|  |  | Partition |
|  |  | Doorway |
|  |  | Delimiter |

**Question 45** This variable controls the number of times that the loop iterates.

|  |  |  |
| --- | --- | --- |
|  |  | Counter variable |
|  |  | Loop control variable |
|  |  | Running total |
|  |  | Decrement variable |

**Question 46** What will be the value of x after the following code is executed?

|  |  |  |
| --- | --- | --- |
|  |  | 90 |
|  |  | 110 |
|  |  | 130 |
|  |  | 210 |

**Question 47** What will be the value of x after the following code is executed?  
int x, y = 4, z = 6;  
x = (y++) \* (++z);

|  |  |  |
| --- | --- | --- |
|  |  | 24 |
|  |  | 28 |
|  |  | 30 |
|  |  | 35 |

**Question 48** Which of the following are pre-test loops?

|  |  |  |
| --- | --- | --- |
|  |  | while, for, do-while |
|  |  | while, do-while |
|  |  | while, for |
|  |  | for, do-while |

**Question 49** The do-while loop is a pre-test loop.

True

False

**Question 50** When you open a file with the PrintWriter class, the class can potentially throw an IOException.

True

False