

#1 Which of the following is the correct expression that evaluates to true if the number x is between 1 and 100 or the number is negative?

- (a)  $(1 > x > 100) \parallel (x < 0)$
- (b)  $((x < 100) \&\& (x > 1)) \&\& (x < 0)$
- (c)  $1 < x < 100 \&\& x < 0$
- (d)  $((x < 100) \&\& (x > 1)) \parallel (x < 0)$

#2 To obtain the sine of 35 degrees, use \_\_\_\_\_.

- (a) `Math.sin(Math.toDegree(35))`
- (b) `Math.sin(35)`
- (c) `Math.sin(Math.toDegrees(35))`
- (d) `Math.sin(Math.toRadian(35))`
- (e) `Math.sin(Math.toRadians(35))`

#3 How many times will the following loop execute: `for(int i=5; i<=45; i+=10)`

- (a) 5
- (b) 1
- (c) 6
- (d) 4
- (e) 0

#4 Why are three different types of loops supported by Java?

- (a) Because different problems are better expressed using different loop constructs.
- (b) Because no single loop construct can implement all of the different types of loops.
- (c) Because each type of loop is required by different types of problems.
- (d) Because most Java programmers are used to having these three types of loops available.

#5 Each time a method is invoked, the system stores parameters and local variables in an area of memory, known as \_\_\_\_\_, which stores elements in last-in first-out fashion.

- (a) an array
- (b) a stack
- (c) storage area
- (d) a heap

Enter the letter(s) of each answer below. You may choose multiple answers, but credit will be divided by the number of choices made.

1 D 2 E 3 A 4 A 5 B 6 C 7 B 8 A 9 D 10 A

- #6 `(char)('a' + Math.random() * ('z' - 'a'))` returns a random character \_\_\_\_\_.
- (a) between 'b' and 'y'
  - (b) between 'a' and 'z'
  - (c) between 'a' and 'y'
  - (d) between 'b' and 'z'
- #7 The client can use a method without knowing how it is implemented. The details of the implementation are contained in the method and hidden from the client who invokes the method. This is known as \_\_\_\_\_.
- (a) method hiding
  - (b) encapsulation
  - (c) incorporation
  - (d) method composition
- #8 \_\_\_\_\_ is a simple but incomplete version of a method.
- (a) A stub
  - (b) A method developed using top-down approach
  - (c) A main method
  - (d) A non-main method
- #9 When you invoke a method with a parameter, the value of the argument is passed to the parameter. This is referred to as \_\_\_\_\_.
- (a) pass by reference
  - (b) method invocation
  - (c) pass by name
  - (d) pass by value
- #10 Do not answer this question -- it is for grading purposes only.
- (a) Turned in the quiz.
  - (b) Entered UserID incorrectly or illegibly.
  - (c) Entered Name illegibly.
  - (d) Did not enter answers legibly in spaces provided.
  - (e) Did not leave the answer space for this question blank.