1.Which type of loop is best known for its boolean condition that controls entry to the loop?

- A. do-while loop
- B. for (traditional)
- C. for-each
- D. while

2. Which type of loop is best known for using an index or counter?

- A. do-while loop
- B. for (traditional)
- C. for-each
- D. while

3.Which type of loop is guaranteed to have the body execute at least once?

- A. do-while loop
- B. for (traditional)
- C. for-each
- D. while

4.What keyword is used to end the current loop iteration and proceed execution with the next iteration of that loop?

- A. break
- B. continue
- C. end
- D. skip

5.What does the following code output?

```
String letters = "";
while (letters.length() != 2)
letters+="a";
System.out.println(letters);
```

- A. aa
- B. aaa
- C. The loops complete with no output.
- D. This is an infinite loop.

6.What keyword is used to proceed with execution immediately after a loop?

- A. break
- B. continue
- C. end
- D. skip

7. What does the following code output?

```
int singer = 0;
while (singer)
System.out.println(singer++);
```

- A. 0
- B. The code does not compile.
- C. The loops complete with no output.
- D. This is an infinite loop.

8. What does the following code output?

```
int singer = 0;
while (singer > 0)
System.out.println(singer++);
```

- A. 0
- B. The code does not compile.
- C. The loops completes with no output.
- D. This is an infinite loop.

9. What does the following code output?

```
String letters = "";
while (letters.length() != 3)
letters+="ab";
System.out.println(letters);
```

- A. ab
- B. abab
- C. The loop completes with no output.
- D. This is an infinite loop.

```
10. What is the result of the following?
int k = 0;
for (int i = 10; i > 0; i--) {
while (i > 3)
\{i -= 3;\}
k += 1;
}
System.out.println(k);
  A. 1
  B. 2
  C. 3
  D. 4
11.Which of the following is equivalent to this code snippet given an
array of String objects?
for (int i=fun.length-1; i>=0; i--)
System.out.println(fun[i]);
  A. for (String f = fun) System.out.println(f);
  B. for (String f : fun) System.out.println(f);
  C. for (String f fun) System.out.println(it);
  D. None of the above
12.What is the output of the following?
StringBuilder builder = new StringBuilder();
String str = new String("Leaves growing");
do {
System.out.println(str);
while (builder);
System.out.println(builder);
  A. Leaves growing
  B. This is an infinite loop.
  C. The code does not compile.
  D. The code compiles but throws an exception at runtime.
```

```
13.What is the result of the following code?
6:
     int count = 0;
7:
     do {
8:
     do {
9:
     count++;
10: } while (count < 2);</pre>
11:
     break;
12: } while (true);
13: System.out.println(count);
  A. 2
  B. 3
  C. The code does not compile.
  D. This is an infinite loop
14. Which of the following best describes the flow of execution in this
for loop if beta always returns false?
for (alpha; beta; gamma)
delta;
  A. alpha
  B. alpha, beta
  C. alpha, beta, gamma
  D. None of the above
15.Which of the following best describes the flow of execution in this
for loop if the loop body is run exactly once?
for (alpha; beta; gamma)
{
delta;
}
  A. alpha, delta, gamma, beta
  B. alpha, beta, delta, gamma, beta
  C. alpha, delta, gamma, alpha, beta
  D. alpha, beta, delta, gamma, alpha, beta
```

```
16. What is the output of the following?
public class Shoelaces
public static void main(String[] args) {
String tie = null;
while (tie == null);
tie = "shoelace";
System.out.print(tie);
}
  A. null
  B. shoelace
  C. shoelaceshoelace
  D. None of the above
17.What is the output of the following application?
package stocks;
public class Bond {
private static int price = 5;
public boolean sell() {
if(price<10)
{ price++; return true;
else if(price>=10) {
return false;
}
public static void main(String[] cash) {
new Bond().sell();
new Bond().sell();
new Bond().sell();
System.out.print(price);
}
}
Α.
     5
В.
     6
С.
     The code does not compile.
D.
```