1 What is the exact output of the following code?

```java
double area = 3.5;
System.out.print("area");
System.out.print(area);
```

A. 3.53.5  
B. 3.5 3.5  
C. area3.5  
D. area 3.5  
E. 0

11 -24 % 5 is ____

A. -1  
B. -2  
C. -3  
D. -4  
E. 0

3 To assign a value 1 to variable x, you write

A. 1 = x;  
B. x = 1;  
C. x := 1;  
D. 1 := x;  
E. x == 1;

13 To assign a value 1 to variable x, you write

A. 1 = x;  
B. x = 1;  
C. x := 1;  
D. 1 := x;  
E. x == 1;

5 Which of these data types requires the most amount of memory?

A. long  
B. int  
C. short  
D. byte

15 Suppose x is 1. What is x after x += 2?

A. 0  
B. 1  
C. 2  
D. 3  
E. 4

7 Which of the following expression results in a value 1?

A. 2 % 1  
B. 15 % 4  
C. 25 % 5  
D. 37 % 6  
E. 0

17 What is x after the following statements?

```java
int x = 1;
int y = 2;
x *= y + 1;
```

A. x is 1.  
B. x is 2.  
C. x is 3.  
D. x is 4.
19 Analyze the following code.

```java
public class Test {
    public static void main(String[] args) {
        int month = 09;
        System.out.println("month is " + month);
    }
}
```

A. The program displays month is 09
B. The program displays month is 9
C. The program displays month is 9.0
D. The program has a syntax error, because 09 is an incorrect value.

21 To assign a double variable d to a float variable x, you write

A. x = (long)d
B. x = (int)d;
C. x = d;
D. x = (float)d;

23 Which of the following assignment statements is illegal?

A. float f = -34;
B. int t = 23;
C. short s = 10;
D. int t = (int)false;
E. int t = 4.5;

25 What is the value of (double)(5/2)?

A. 2
B. 2.5
C. 3
D. 2.0
E. 3.0

27 If you attempt to add an int, a byte, a long, and a double, the result will be a _________ value.

A. byte
B. int
C. long
D. double

29 A Java character is stored in __________.

A. one byte
B. two bytes
C. three bytes
D. four bytes

31 Which of the following statement prints smith\exam1\test.txt?

A. System.out.println("smith\exam1\test.txt");
B. System.out.println("smith\exam1\test.txt");
C. System.out.println("smith\exam1\test.txt");
D. System.out.println("smith"\exam1"\test.txt");

33 The unicode of 'a' is 97. What is the unicode for 'c'?

A. 96
B. 97
C. 98
D. 99

35 What is the printout of System.out.println('z' - 'a')?

A. 25
B. 26
C. a
D. z

37 Which of the following assignment statements is correct?

A. char c = 'd';
B. char c = 100;
C. char c = "d";
D. char c = "100";

39 Note that the Unicode for character A is 65. The expression "A" + 1 evaluates to _________.

A. 66
B. B
C. A1
D. Illegal expression