

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which of the following is a valid identifier? (Choose all that apply.) 1) _____
A) rad B) main C) class D) 6abc E) 8+9
- 2) _____ is the Java assignment operator. 2) _____
A) = B) =: C) == D) :=
- 3) To assign a value 1 to variable x, you write 3) _____
A) 1 := x; B) x = 1; C) x := 1; D) 1 = x; E) x == 1;
- 4) To declare a constant MAX_LENGTH inside a method with value 99.98, you write 4) _____
A) final double MAX_LENGTH = 99.98; B) final MAX_LENGTH = 99.98;
C) double MAX_LENGTH = 99.98; D) final float MAX_LENGTH = 99.98;
- 5) Which of the following is a constant, according to Java naming conventions? (Choose all that apply.) 5) _____
A) COUNT
B) read
C) max_value
D) ReadInt
E) Test
- 6) To improve readability and maintainability, you should declare _____ instead of using literal values such as 3.14159. 6) _____
A) classes B) variables C) methods D) constants
- 7) To declare an int variable number with initial value 2, you write 7) _____
A) int number = 2L; B) int number = 2I;
C) int number = 2.0; D) int number = 2;
- 8) What is the result of 45 / 4? 8) _____
A) 12 B) 11 C) 11.25 D) 10
- 9) Which of the following expressions will not yield 0.5? 9) _____
A) (double) 1 / 2 B) 1 / 2.0 C) 1.0 / 2 D) 1 / 2
- 10) Which of the following expression results in a value 1? 10) _____
A) 37 % 6 B) 25 % 5 C) 15 % 4 D) 2 % 1
- 11) 25 % 1 is _____. 11) _____
A) 1 B) 2 C) 3 D) 4 E) 0
- 12) 24 % 5 is _____. 12) _____
A) 1 B) 2 C) 3 D) 4 E) 0

- 13) To add a value 1 to variable x, you not write (Choose all that apply.) 13) _____
 A) $1 + x = x$; B) $x = x + 1$; C) $x += 1$; D) $x = 1 + x$;
- 14) `Math.pow(2, 3)` returns _____. 14) _____
 A) 8 B) 8.0 C) 9 D) 9.0
- 15) Suppose x is 1. What is x after `x += 2`? 15) _____
 A) 0 B) 1 C) 2 D) 3 E) 4
- 16) What is the printout of the following code: 16) _____
- ```
double x = 5.5;
int y = (int)x;
System.out.println("x is " + x + " and y is " + y);
```
- A) x is 6 and y is 6  
 B) x is 5.5 and y is 5  
 C) x is 5.5 and y is 5.0  
 D) x is 5 and y is 6  
 E) x is 6.0 and y is 6.0
- 17) \_\_\_\_\_ is the code with natural language mixed with Java Code 17) \_\_\_\_\_  
 A) Pseudocode                      B) a Java Statement  
 C) a flowchart diagram                      D) a Java Program
- 18) If a program completes fine, but it terminates abnormally at runtime, then the program suffers \_\_\_\_ 18) \_\_\_\_\_  
 A) runtime error                      B) syntax error                      C) logic error                      D) memory loss
- 19) The result of an integer division is the integer part of the division; the fraction part is truncated. 19) \_\_\_\_\_  
 A) True                      B) False                      C) Depends on divisor
- 20) What is the value of `(double)5/2`? 20) \_\_\_\_\_  
 A) 3.0                      B) 2.0                      C) 2.5                      D) 3                      E) 2
- 21) What is the value of `(double)(5/2)`? 21) \_\_\_\_\_  
 A) 3.0                      B) 2                      C) 2.5                      D) 2.0                      E) 3
- 22) What is the value of `5 % 2` 22) \_\_\_\_\_  
 A) 0                      B) 1                      C) 2                      D) 3
- 23) The expression `(int)(76.0252175 * 100) / 100` evaluates to \_\_\_\_\_. 23) \_\_\_\_\_  
 A) 76.03                      B) 76                      C) 76.02                      D) 76.0252175

24) Analyze the following code.

24) \_\_\_\_\_

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

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

25) The \_\_\_\_\_ method parses a string s to an int value.

25) \_\_\_\_\_

- A) Integer.parseInt(s);
- B) Integer.parseInt(s);
- C) Integer.parseInt(s);
- D) Integer.parseInt(s);

26) The \_\_\_\_\_ method parses a string s to a double value.

26) \_\_\_\_\_

- A) Double.parseDouble(s);
- B) Double.parseDouble(s);
- C) Double.parseDouble(s);
- D) Double.parseDouble(s);

27) The expression  $4 + 20 / (3 - 1) * 2$  is evaluated to

27) \_\_\_\_\_

- A) 24
- B) 25
- C) 20
- D) 9

28) `Math.pow(4, 1 / 2)` returns \_\_\_\_\_.

28) \_\_\_\_\_

- A) 0
- B) 1.0
- C) 2
- D) 2.0

29) The expression `(int)(76.0252175 * 100) / 100` evaluates to \_\_\_\_\_.

29) \_\_\_\_\_

- A) 76
- B) 76.03
- C) 76.02
- D) 76.0252175

30) To assign a double variable d to an int variable x, you write

30) \_\_\_\_\_

- A) `x = (int)d;`
- B) `x = d;`
- C) `x = (float)d;`
- D) `x=(double)d;`

31) The compiler checks for \_\_\_\_\_

31) \_\_\_\_\_

- A) syntax errors
- B) logic errors
- C) runtime errors
- D) all misspelled words

32) The division by zero error is \_\_\_\_\_

32) \_\_\_\_\_

- A) runtime errors
- B) all misspelled words
- C) logic errors
- D) syntax errors

33) The "null pointer exception" error is \_\_\_\_\_

33) \_\_\_\_\_

- A) logic errors
- B) syntax errors
- C) runtime errors
- D) all misspelled words

34) Which of the following expressions will yield 0.5? (may be more than one)

34) \_\_\_\_\_

- A) `1.0 / 2`
- B) `(double) (1 / 2)`
- C) `(String) 1 / 2`
- D) `1 / 2`

35) The expression "Java " + 1 + 2 + 3 evaluates to \_\_\_\_\_.

- A) Java123
- B) java 123
- C) Java6
- D) Java 123
- E) Illegal expression

35) \_\_\_\_\_