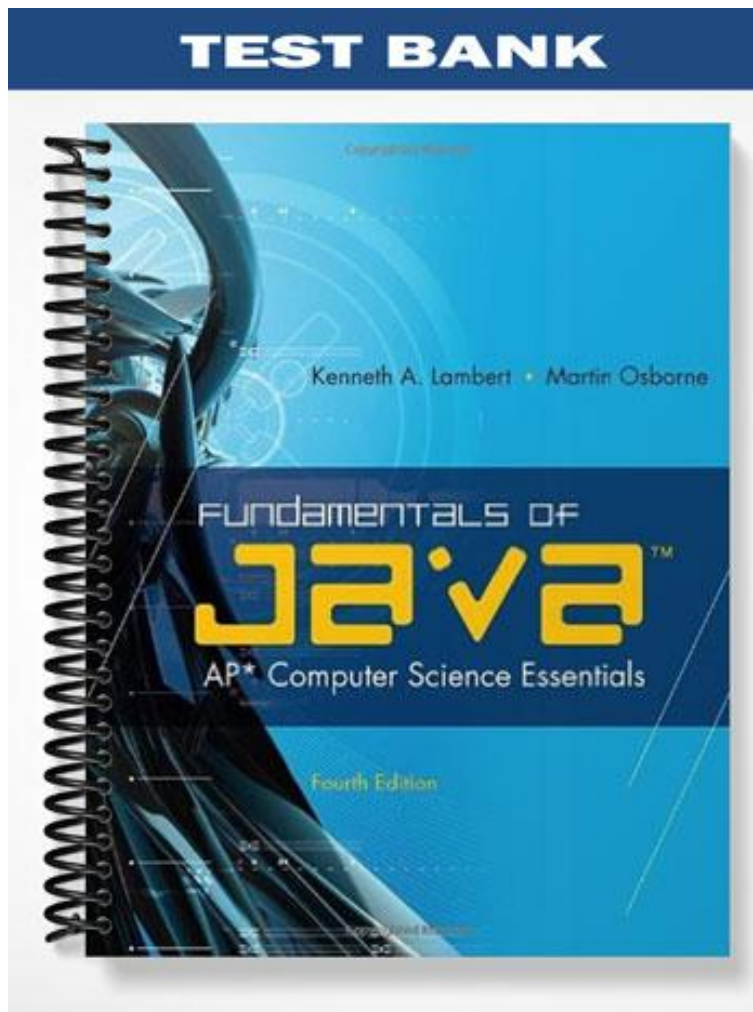


TEST BANK



Ch02

True/False

Indicate whether the statement is true or false.

- ___ 1. Java bears a superficial resemblance to C++.
- ___ 2. Java is ideally suited to developing distributed, network-based applications.
- ___ 3. Java applets have little risk of infecting your computer with a virus.
- ___ 4. Source code is the bulk of the instructions of a program.
- ___ 5. UNIX is available on any Macintosh computer that runs MacOS X.
- ___ 6. A DOS development environment combines an editor, Java compiler, debugger, and a JVM.
- ___ 7. The main factor affecting a program's readability is misspelled words.
- ___ 8. In Java, as in algebra, addition and subtraction have a higher precedence than multiplication and division .
- ___ 9. Graphics and GUI programs in Java can run either as stand-alone applications or as applets.
- ___ 10. Java programs accomplish many tasks by sending messages to objects.

Modified True/False

Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.

- ___ 11. GUI is the machine language for an imaginary Java computer. _____
- ___ 12. The main advantage of a compiler is that any computer can run it. _____
- ___ 13. The terminal I/O user interface is familiar to all PC users. _____
- ___ 14. Syntax errors is another term for compile-time errors. _____
- ___ 15. Parameters are used to share information between objects. _____

Multiple Choice

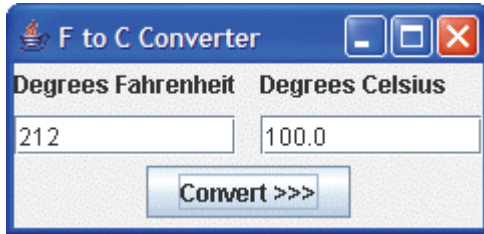
Identify the choice that best completes the statement or answers the question.

- ___ 16. Which of the following is NOT true about Java?
 - a. Java is an object-based language.
 - b. Java creates programs that are portable.
 - c. The Java compiler translates into machine language.
 - d. Java supports threads.

- ___ 17. Java is all of the following EXCEPT ____.
- a. fast
 - b. secure
 - c. robust
 - d. portable
- ___ 18. A(n) ____ is a process that can run concurrently with other processes.
- a. applet
 - b. thread
 - c. interpreter
 - d. parameter
- ___ 19. To run Java byte code, you must install a(n) ____.
- a. GUI
 - b. JIT
 - c. IDE
 - d. JVM
- ___ 20. A(n) ____ is a program that behaves like a computer.
- a. interpreter
 - b. compiler
 - c. terminal I/O
 - d. applet
- ___ 21. Some JVMs translate byte code instructions into machine language when they are first encountered, using the ____ technique.
- a. IDE
 - b. JIT
 - c. variable
 - d. interpreter
- ___ 22. A(n) ____ is a small Java program that runs on Web pages.
- a. JIT
 - b. parameter
 - c. JVM
 - d. applet
- ___ 23. All of the following are benefits of using a terminal I/O interface EXCEPT ____.
- a. In Java, it is easier to implement than GUI.
 - b. It is more common and familiar.
 - c. Some programming situations require a terminal I/O interface.
 - d. Terminal-oriented programs are similar to programs that process files of sequentially organized data.
- ___ 24. A ____ is used to mark the end of each statement in a program.
- a. comma (,)
 - b. slash (/)
 - c. period (.)
 - d. semicolon (;)
- ___ 25. The string of characters that appears between the parentheses following the message in Java code is called a(n) ____.
- a. parameter
 - b. statement
 - c. variable
 - d. thread
- ___ 26. The three steps to writing and running a program, in order, are ____.
- a. enter, edit, compile
 - b. edit, execute, compile
 - c. edit, compile, execute
 - d. enter, interpret, compile
- ___ 27. ____ is an editor available with Microsoft Windows.
- a. Linux
 - b. UNIX
 - c. BlueJ
 - d. Notepad
- ___ 28. All of the following are examples of integrated development environments, EXCEPT ____.
- a. BlueJ
 - b. Eclipse
 - c. JFrame
 - d. JGrasp
- ___ 29. The main factor affecting a program's readability is its ____.

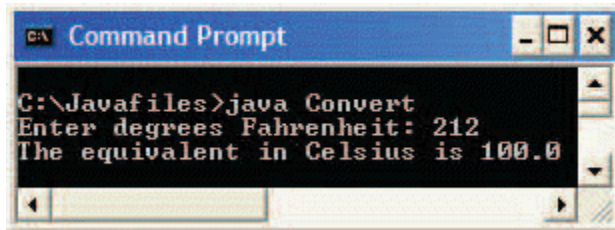
- a. layout
 - b. spelling
 - c. language
 - d. development environment
- ___ 30. `SomeClass someObject = new SomeClass (some parameters);` is an example of ____.
- a. assignment
 - b. instantiation
 - c. byte code
 - d. interpretation
- ___ 31. ____ is an assignment operator.
- a. +
 - b. *
 - c. =
 - d. All of the above.
- ___ 32. A(n) ____ has a container or pane that can be filled with other objects.
- a. JFrame
 - b. panel
 - c. window
 - d. IDE
- ___ 33. Colors in most computer systems use the ____ scheme.
- a. color class
 - b. RGB
 - c. CMYK
 - d. GUI

FIGURE 2-1



- ___ 34. Figure 2-1 above represents a(n) ____ user interface.
- a. GUI
 - b. JVM
 - c. terminal I/O
 - d. variable

FIGURE 2-2



- ___ 35. Figure 2-2 above represents a(n) ____ user interface.
- a. GUI
 - b. JVM
 - c. terminal I/O
 - d. variable

Case 2-1

Jeremiah is a C++ programmer who has been asked by a client to create a program using Java.

- ___ 36. Jeremiah knows that Java is ____.
- a. better suited to the Internet than C++
 - b. more error-prone than C++
 - c. the world's most popular industrial-strength programming language

d. superficially very different from C++

- ___ 37. Jeremiah will incorporate ___ into his Java program in order to allow multiple processes to occur at once, such as an image being transferred from one machine to another across a network, while another process simultaneously interacts with the user.
- | | |
|--------------|------------|
| a. variables | c. panels |
| b. threads | d. applets |

Case 2-2

Lucia is editing a program using Java. She has to install a development environment on her computer before she can get started.

- ___ 38. Lucia considers using the ___ development environment, which has the most widespread use.
- | | |
|------------|---------|
| a. JGrasp | c. DOS |
| b. Notepad | d. UNIX |
- ___ 39. Lucia decides to use the ___ development environment so that she can increase her productivity.
- | | |
|------------|---------|
| a. JGrasp | c. DOS |
| b. Notepad | d. UNIX |

Completion

Complete each statement.

40. _____ is the fastest growing programming language in the world.
41. A comical animated character on a Web page is likely run using a program called a(n) _____.
42. A(n) _____ is a programmer who breaks into computer systems in an unauthorized way.
43. In the _____ layout, the default layout manager for frames, you can arrange up to five objects.
44. In the _____ layout, objects are arranged in rows and columns.

Matching

Identify the letter of the choice that best matches the phrase or definition.

- | |
|--------------|
| a. Applet |
| b. GUI |
| c. IDE |
| d. Pane |
| e. Byte code |

- ___ 45. An example could be a continuous stream of stock quotes.
- ___ 46. Windows are often organized into many of these.
- ___ 47. To run this, you must install a JVM on the computer.

- ___ 48. Eclipse is an example.
- ___ 49. Familiar interface for PC users.

Essay

- 50. List at least three reasons why Java is used by companies such as Sun and IBM to develop their major applications. Why might a programmer choose another language?

Ch02 Answer Section

TRUE/FALSE

- | | | |
|------------|--------|--------------|
| 1. ANS: T | PTS: 1 | REF: 32 |
| 2. ANS: T | PTS: 1 | REF: 32 |
| 3. ANS: T | PTS: 1 | REF: 33 |
| 4. ANS: T | PTS: 1 | REF: 35 |
| 5. ANS: T | PTS: 1 | REF: 38 |
| 6. ANS: F | PTS: 1 | REF: 38 |
| 7. ANS: F | PTS: 1 | REF: 40 41 |
| 8. ANS: F | PTS: 1 | REF: 44 |
| 9. ANS: T | PTS: 1 | REF: 46 |
| 10. ANS: T | PTS: 1 | REF: 52 |

MODIFIED TRUE/FALSE

- | | | | |
|--------------------------------|---------|--------|---------|
| 11. ANS: F, Byte code | | | |
| PTS: 1 | REF: 32 | | |
| 12. ANS: F, interpreter | | | |
| PTS: 1 | REF: 33 | | |
| 13. ANS: F
GUI
graphical | | | |
| PTS: 1 | REF: 33 | | |
| 14. ANS: T | | PTS: 1 | REF: 40 |
| 15. ANS: T | | PTS: 1 | REF: 43 |

MULTIPLE CHOICE

- | | | |
|------------|--------|--------------|
| 16. ANS: C | PTS: 1 | REF: 32 |
| 17. ANS: A | PTS: 1 | REF: 32 |
| 18. ANS: B | PTS: 1 | REF: 32 |
| 19. ANS: D | PTS: 1 | REF: 32 |
| 20. ANS: A | PTS: 1 | REF: 32 |
| 21. ANS: B | PTS: 1 | REF: 32 33 |
| 22. ANS: D | PTS: 1 | REF: 33 |
| 23. ANS: B | PTS: 1 | REF: 34 |
| 24. ANS: D | PTS: 1 | REF: 35 |
| 25. ANS: A | PTS: 1 | REF: 35 |
| 26. ANS: C | PTS: 1 | REF: 37 |

27.	ANS: D	PTS: 1	REF: 38	
28.	ANS: C	PTS: 1	REF: 38	
29.	ANS: A	PTS: 1	REF: 41	
30.	ANS: B	PTS: 1	REF: 43	
31.	ANS: C	PTS: 1	REF: 44	
32.	ANS: A	PTS: 1	REF: 48	
33.	ANS: B	PTS: 1	REF: 48	
34.	ANS: A	PTS: 1	REF: 33	
35.	ANS: C	PTS: 1	REF: 33	
36.	ANS: A	PTS: 1	REF: 32	TOP: Critical Thinking
37.	ANS: B	PTS: 1	REF: 32	TOP: Critical Thinking
38.	ANS: C	PTS: 1	REF: 38	TOP: Critical Thinking
39.	ANS: A	PTS: 1	REF: 38	TOP: Critical Thinking

COMPLETION

40.	ANS: Java		
	PTS: 1	REF: 31	
41.	ANS: applet		
	PTS: 1	REF: 33	
42.	ANS: hacker hack		
	PTS: 1	REF: 41	
43.	ANS: border		
	PTS: 1	REF: 49	
44.	ANS: grid		
	PTS: 1	REF: 51	

MATCHING

45.	ANS: A	PTS: 1	REF: 33
46.	ANS: D	PTS: 1	REF: 48
47.	ANS: E	PTS: 1	REF: 32
48.	ANS: C	PTS: 1	REF: 38
49.	ANS: B	PTS: 1	REF: 33

ESSAY

50. ANS:
Four possible reasons to use Java are:

1. It is a modern object-oriented programming language that uses the best features of languages such as C++ and Smalltalk.
2. Java is secure (tamper- and virus-free), robust (programs do not overwrite memory), and portable (programs can be run on different computer types).
3. Java uses advanced programming concepts, such as threads.
4. Java resembles C++, making it easy for C++ programmers to learn Java and vice versa.

Why a programmer might choose another language:

Java runs more slowly than other modern programming languages because it must be interpreted using a JVM.

PTS: 1

REF: 32

TOP: Critical Thinking