## Big Java Early Objects 5th Edition Horstmann Test Bank

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Chapter 1 Testbank: Introduction

Multiple Choice

- 1. Which statement best describes a computer program?
- A) A program is a sequence of comments.
- B) A program can decide what task it is to perform.
- C) A program is a sequence of instructions and decisions that the computer carries out.
- D) A program can only perform one simple task.

Ans: C

Section Ref: Section 1.1 Computer Programs

Title: Which statement best describes a computer program?

Difficulty: Easy

- 2. Which statement regarding computer programs is correct?
- A) Computer programs can decide what task to perform.
- B) Large and complex computer programs are generally written by only one programmer.
- C) Computer programs are composed of extremely primitive operations.
- D) Small computer programs are not documented.

Answer: c

Section reference: Section 1.1 Computer Programs

Title: Which statement regarding computer programs is correct?

Difficulty: Easy

- 3. What does CPU stand for?
- A) Computer Programming Unit
- B) Computer Processing Unit
- C) Central Processing Unit
- D) Central Programming Unit

Ans: C

Section Ref: Section 1.2 The Anatomy of a Computer

Title: What does CPU stand for?

- 4. Which one of the following is NOT a function of a CPU?
- A) Performing arithmetic operations
- B) Processing data and controlling programs
- C) Querying a database

D) Fetching and storing data from storage and input devices

Ans: C

Section Ref: Section 1.2 The Anatomy of a Computer

Title: Which one of the following is NOT a function of a CPU?

Difficulty: Easy

- 5. Which type of storage is made from memory chips?
- A) CD
- B) hard disk
- C) primary storage
- D) DVD

Ans: C

Section Ref: Section 1.2 The Anatomy of a Computer Title: Which type of storage is made from memory chips?

Difficulty: Easy

- 6. Which one of the following memory types provides storage that persists without electricity?
- A) primary storage
- B) RAM
- C) memory
- D) secondary storage

Ans: D

Section Ref: Section 1.2 The Anatomy of a Computer

Title: Which one of the following memory types provides storage that persists without electricity?

Difficulty: Easy

- 7. Which type of secondary storage consists of rotating platters, which are coated with a magnetic material, and read/write heads, which can detect and change the patterns of varying magnetic flux on the platters?
- A) hard disk
- B) flashdrive
- C) DVD
- D) RAM

Ans: A

Section Ref: Section 1.2 The Anatomy of a Computer

Title: Which type of secondary storage consists of rotating platters?

- 8. What are the electrical lines called that interconnect the CPU, RAM, and the electronics controlling the hard disk and other devices?
- A) bus
- B) network
- C) optical disk
- D) power lines

Ans: A

Section Ref: Section 1.2 The Anatomy of a Computer Title: What are the electrical lines called on a computer?

Difficulty: Easy

- 9. Which part of a computer contains the CPU, the RAM, and connectors to peripheral devices?
- A) network
- B) bus
- C) motherboard
- D) optical disk

Ans: C

Section Ref: Section 1.2 The Anatomy of a Computer

Title: Which part of a computer contains the CPU, the RAM, and connectors to peripheral devices?

Difficulty: Easy

- 10. For a program to be executed, where must it reside so that the CPU can read its instructions?
- A) optical disk
- B) primary memory
- C) secondary memory
- D) hard disk

Ans: B

Section Ref: Section 1.2 The Anatomy of a Computer

Title: For a program to be executed, where must it reside so that the CPU can read its instructions?

Difficulty: Easy

- 11. Which memory type does not provide persistent storage?
- A) secondary storage
- B) hard disk
- C) primary storage
- D) DVD

Answer: c

Section reference: 1.2 The Anatomy of a Computer

Title: Which memory type does not provide persistent storage?

- 12. Which of the following is not contained on the motherboard of a computer?
- A) RAM
- B) integrated circuit
- C) hard disk
- D) CPU

Answer: c

Section reference: 1.2 The Anatomy of a Computer

Title: Which of the following is not contained on the motherboard of a computer?

Difficulty: Easy

- 13. What term is used to refer to the computer instructions that are executed by a CPU, which are specific to each CPU?
- A) virtual machine
- B) machine code
- C) high-level code
- D) instruction set

Ans: B

Section Ref: Section 1.3 The Java Programming Language

Title: What term is used to refer to the computer instructions that are executed by a CPU?

Difficulty: Easy

- 14. What is the JVM?
- A) A vital machine that never fails to run compiled Java code.
- B) A vital machine that compiles Java code into machine instructions.
- C) A virtual machine that runs compiled Java code on any CPU.
- D) A virtual machine that compiles Java code into machine instructions.

Answer: c

Section reference: 1.3 The Java Programming Language

Title: What is the JVM?

Difficulty: Easy

- 15. What is the term used to refer to Java code that runs in a browser?
- A) applet
- B) script
- C) html
- D) class

Answer: a

Section reference: 1.3 The Java Programming Language

Title: What is the term used to refer to Java code that runs in a browser?

- 16. What term is used to refer to languages that allow programmers to describe tasks at a higher conceptual level than machine code?
- A) virtual
- B) high-level

C) sophisticated

D) conceptual

Ans: B

Section Ref: Section 1.3 The Java Programming Language

Title: What term is used to refer to languages that allow programmers to describe tasks at a higher

conceptual level than machine code?

Difficulty: Easy

- 17. What translates high-level descriptions into machine code?
- A) debugger
- B) assembler
- C) compiler
- D) linker

Ans: C

Section Ref: Section 1.3 The Java Programming Language Title: What translates high-level descriptions into machine code?

Difficulty: Easy

- 18. What translates Java source code into files that contain instructions for the JVM?
- A) linker
- B) compiler
- C) assembler
- D) interpreter

Ans: B

Section Ref: Section 1.3 The Java Programming Language

Title: What translates Java source code into files that contain instructions for the JVM?

Difficulty: Easy

- 19. Which statement is true about running a Java program on a different CPU?
- A) You need different Java source code for each processor.
- B) You can take code that has been generated by the Java compiler and run it on different CPUs.
- C) You need to recompile the Java program for each processor.
- D) You cannot run the program on a computer with a different processor because Java, being a high-level programming language, is machine dependent.

Ans: B

Section Ref: Section 1.3 The Java Programming Langauge

Title: Which statement is true about running a Java program on a different CPU?

Difficulty: Medium

20. When was Java officially introduced? A) 1989 B) 1995 C) 2005 D) 2000 Ans: B Section Ref: Section 1.3 The Java Programming Language Title: When was Java officially introduced? Difficulty: Easy 21. Which statement best describes the portability characteristic of Java? A) It is easy to copy Java source code from one machine to another. B) The same Java class files will run on different operating systems without change. C) It is easy to compile Java source code on different operating systems. D) It is easy to change a Java program so that it will work on different operating systems. Ans: B Section Ref: Section 1.3 The Java Programming Language Title: Which statement best describes the portability characteristic of Java? Difficulty: Easy 22. When a Java application starts, what is the name of the method that is executed? A) main B) start C) begin D) Main Section reference: 1.4 Becoming Familiar With Your Programming Environment Title: When a Java application starts, what is the name of the method that is executed? Difficulty: Easy 23. Text enclosed between this and the end of line is ignored by the compiler. A) " B) // C) () D) "" Answer: b Section reference: 1.5 Analyzing Your First Program Title: Text enclosed between this and the end of line is ignored by the compiler.

24. What is the name of the file declaring the class named MyClass?

A) MyClass

B) myclass.java C) MyClass.class D) MyClass.java
Answer: d Section reference: 1.5 Analyzing Your First Program Title: What is the name of the file declaring the class named MyClass? Difficulty: Easy
25. In a console window, how do you compile the declaration of the class MyClass?  A) javac MyClass.java  B) javac MyClass  C) java MyClass.java  D) java MyClass
Answer: a Section reference: 1.5 Analyzing Your First Program Title: In a console window, how do you compile the declaration of the class MyClass? Difficulty: Medium
26. In a console window, assuming that MyClass includes the main method, how do you run the program?  A) java MyClass.class B) javac MyClass C) java MyClass D) javac MyClass.java
Answer: c Section reference: 1.5 Analyzing Your First Program Title: In a console window, how do you run a Java program? Difficulty: Medium
27. A(n) is a collection of code that has been programmed and translated by someone else, ready for use in your program.  A) method B) class C) parameter D) library
Answer: d Section reference: 1.5 Analyzing Your First Program Title: A(n) is a collection of code Difficulty: Easy
28. Every Java program consists of one or more of these fundamental building blocks.  A) class B) CPU C) applet D) parameter

Section Ref: Section 1.5 Analyzing Your First Program Title: TB Every Java program consists of one or more of these fundamental building blocks. Difficulty: Easy
29. What is the name of the file that contains the Java source code for the class BankAccount?  A) BankAccount  B) BankAccount.java  C) BankAccount.class  D) BankAccount.txt
Ans: B Section Ref: Section 1.5 Analyzing Your First Program Title: What is the name of the file that contains the Java source code for this class? Difficulty: Easy
30. A contains sequences of instructions to perform a particular task.  A) parameter B) label C) variable D) method
Ans: D Section Ref: Section 1.5 Analyzing Your First Program Title: A contains sequences of instructions to perform a particular task. Difficulty: Easy
31. What term is used to refer to an instruction in a method?  A) statement B) constant C) comment D) object
Ans: A Section Ref: Section 1.5 Analyzing Your First Program Title: What term is used to refer to an instruction in a method? Difficulty: Easy
32. In Java, every statement must end with this symbol. A) . B) ) C) !

Ans: A

D);
Ans: D Section Ref: Section 1.5 Analyzing Your First Program Title: In Java, every statement must end with this symbol. Difficulty: Easy
33. What term is used to refer to text in a program that helps human readers understand the program?  A) methods B) comments C) constants D) statements
Ans: B Section Ref: Section 1.5 Analyzing Your First Program Title: What term is used to refer to text in a program that helps human readers understand the program? Difficulty: Easy
34. The Java compiler ignores any text between  A) (* and *)  B) /* and */  C) {* and *}  D) // and //
Ans: B Section Ref: Section 1.5 Analyzing Your First Program Title: The Java compiler ignores any text between Difficulty: Easy
35. What term is used to refer to a sequence of characters enclosed in quotation marks?  A) string B) object C) comment D) variable
Ans: A Section Ref: Section 1.5 Analyzing Your First Program Title: What term is used to refer to a sequence of characters enclosed in quotation marks? Difficulty: Easy
36. What entity belongs to a class and is manipulated in a program?  A) constant

- B) package
- C) object
- D) comment

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: What entity belongs to a class and is manipulated in a program?

Difficulty: Easy

- 37. A method is called on what entity in the program?
- A) constant
- B) statement
- C) comment
- D) object

Ans: D

Section Ref: Section 1.5 Analyzing Your First Program Title: A method is called on what entity in the program?

Difficulty: Easy

- 38. What term is used to refer to information passed in to a method on a call?
- A) class
- B) object
- C) parameter
- D) comment

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: What term is used to refer to information passed in to a method on a call?

Difficulty: Easy

- 39. Parameters to methods are enclosed by these symbols.
- A) ()
- B) ""
- C) { }
- D) //

Ans: A

Section Ref: Section 1.5 Analyzing Your First Program Title: Parameters to methods are enclosed by these symbols.

40. A method may be called by specifying which 3 items in the specified order? A) method name, parameters, object B) object, parameters, method name C) object, method name, parameters D) class, parameters, method name Ans: C Section Ref: Section 1.5 Analyzing Your First Program Title: A method is called by specifying which 3 items in the specified order? Difficulty: Easy 41. What is the syntax for calling the println method on the object System.out? A) println("Any message"). System.out; B) System.out("Any message").println; C) System.out.println("Any message"); D) println(System.out, "Any message"); Ans: C Section Ref: Section 1.5 Analyzing Your First Program Title: What is the syntax for calling the println method on the object System.out? Difficulty: Easy 42. What is the object in the given method call? System.out.println("Welcome"); A) println B) System.out C) System.out.println D) System Ans: B Section Ref: Section 1.5 Analyzing Your First Program Title: What is the object in the given method call? Difficulty: Easy 43. What is the name of the method in the given method call? System.out.println("Welcome"); A) "Welcome" B) System C) println

D) out

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: What is the name of the method in the given method call?

Difficulty: Easy

44. What is the parameter in the given method call?

```
System.out.println("Welcome");
```

- A) out
- B) println
- C) "Welcome"
- D) System

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program Title: What is the parameter in the given method call?

Difficulty: Easy

45. What is the output of the following Java statement?

```
System.out.println("4 + 6");
```

- **A)** 10
- B) 46
- C) 4
- D) 4 + 6

Ans: D

Section Ref: Section 1.5 Analyzing Your First Program Title: What is the output of the following Java statement?

Difficulty: Easy

46. What is the output of the following Java statement?

```
System.out.println(4 + 6);
```

- A) 4 + 6
- B) 4
- **C**) 10
- D) 46

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: What is the output of the following Java statement?

Difficulty: Easy

- 47. What type of program can you use to enter your Java program?
- A) compiler
- B) editor
- C) spreadsheet
- D) database

Ans: B

Section Ref: Section 1.5 Analyzing Your First Program

Title: What type of program can you use to enter your Java program?

Difficulty: Easy

- 48. Which statement is true about a Java program?
- A) Java forces the programmer to use a particular layout for readability.
- B) Java requires that at most one statement appear on one line.
- C) The first method that is executed in a Java program is called Main.
- D) Java is case sensitive.

Ans: D

Section Ref: Section 1.5 Analyzing Your First Program Title: Which statement is true about a Java program?

Difficulty: Easy

- 49. What is the name of the class declared in the file MyClass.java?
- A) MyClass
- B) MyClass.class
- C) MyClass.java
- D) myclass

Ans: A

Section Ref: Section 1.5 Analyzing Your First Program

Title: What is the name of the class declared in the file MyClass.java?

- 50. The Java compiler translates source code into what type of file?
- A) document
- B) object
- C) class
- D) text

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: The Java compiler translates source code into what type of file?

Difficulty: Easy

- 51. What is the name of the file created after a successful compilation of MyClass.java?
- A) MyClass.java
- B) MyClass.class
- C) myClass.class
- D) MyClass

Ans: B

Section Ref: Section 1.5 Analyzing Your First Program

Title: What is the name of the file created after a successful compilation of MyClass.java?

Difficulty: Easy

- 52. What does a class file contain?
- A) Instructions for the specific CPU on the computer.
- B) Instructions for the Java Virtual Machine.
- C) The JVM instructions for all classes in the Java application.
- D) The Java source code for a class.

Ans: B

Section Ref: Section 1.5 Analyzing Your First Program

Title: What does a class file contain?

Difficulty: Easy

- 53. What is the file extension of a Java class file?
- A) .java
- B) There is no file extension.
- C).class
- D) .txt

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program Title: What is the file extension of a Java class file?

- 54. In a console window, what is the name of the command used to compile Java source code?
- A) javac
- B) javadoc

C) compile

D) java

Ans: A

Section Ref: Section 1.5 Analyzing Your First Program

Title: In a console window, what is the name of the command used to compile Java source code?

Difficulty: Easy

- 55. In a console window, what is the name of the command used to run a Java program?
- A) javadoc
- B) javac
- C) java
- D) run

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: In a console window, what is the name of the command used to run a Java program?

Difficulty: Easy

- 56. In a console window, how do you compile the declaration of the class BankAccount?
- A) java BankAccount
- B) javac BankAccount
- C) javac BankAccount.java
- D) java BankAccount.java

Ans: C

Section Ref: Section 1.5 Analyzing Your First Program

Title: In a console window, how do you compile the declaration of the class BankAccount?

Difficulty: Medium

- 57. In a console window, assuming that BankAccountTester includes the main method, how do you run the program?
- A) javac BankAccountTester
- B) java BankAccountTester.class
- C) javac BankAccountTester.java
- D) java BankAccountTester

Ans: D

Section Ref: Section 1.5 Analyzing Your First Program

Title: In a console window, how do you run a Java program?

Difficulty: Medium

58. What is a Java library?

- A) A collection of Java source code that has been programmed and can be reused.
- B) A collection of books on Java.
- C) A collection of electronic documentation on Java.
- D) A collection of code that has been programmed and translated by someone else, ready for you to use in your program.

Ans: D

Section Ref: Section 1.5 Analyzing Your First Program

Title: What is a Java library?

Difficulty: Easy

- 59. Which of the following statements is true about running a Java program?
- A) The Java compiler executes your program.
- B) The Java virtual machine loads the instructions for the program that you wrote, starts your program, and loads the necessary library files as they are required.
- C) The java compiler signals the JVM to execute the program.
- D) The javadoc utility runs the documentation of the program.

Ans: B

Section Ref: Section 1.5 Analyzing Your First Program

Title: Which of the following statements is true about running a Java program?

Difficulty: Easy

- 60. Suppose that a computer virus infects your computer and corrupts the files you were going to submit for your current homework assignment. What precaution could have saved you from a disastrously bad grade for this assignment?
- A) Defragment the hard drive.
- B) Purchase an anti-virus program to remove the virus from your computer.
- C) Make regular backups of all your important files.
- D) Purchase an extended warranty for your computer.

Ans: C

Section Ref: Programming Tip 1.1 Backup Copies

Title: What can prevent you from losing files that get corrupted?

Difficulty: Easy

- 61. Which one of the following statements regarding backup strategies for Java files is correct?
- A) You should have multiple copies of your source files in different locations.
- B) You should regularly print out your work so you can retype it in case of data loss.
- C) You should regularly back up the Java virtual machine instructions to prevent loss of valuable work.
- D) Your compiler automatically makes backups of your source files.

Answer: a

Section reference Programming Tip 1.1

Title: Which one of the following statements regarding backup strategies for Java files is correct?

62. Which statement is true about the following Java statement:

```
System.out.println("Hello!);
```

- A) There is a run-time error.
- B) There are no errors.
- C) There is a compile-time error.
- D) There are multiple errors.

Answer: c

Section reference: 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

63. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java statement:

```
System.out.println("Helo!");
```

- A) There is a run-time error.
- B) There are no errors.
- C) There is a compile-time error.
- D) There are multiple errors.

Answer: a

Section reference: 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

64. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java statement:

```
System.out.println("Hello!");
```

- A) There is a run-time error.
- B) There are no errors.
- C) There is a compile-time error.
- D) There are multiple errors.

Answer: b

Section reference: 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

65. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java statement:

```
System.out.printn("Helo!");
```

- A) There is a run-time error.
- B) There are no errors.
- C) There is a compile-time error.
- D) There are multiple errors.

Answer: d

Section reference: 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

66. Assume that the following Java statement is contained in the main method of the class named Hello:

```
System.out.printLine("Hello!");
```

What is the name of the file generated by the Java compiler?

- A) Hello. java
- B) Hello
- C) No file is generated due to an error.
- D) Hello.class

Answer: c

Section reference: 1.6 Errors

Title: What is the name of the file generated by the Java compiler?

Difficulty: Easy

- 67. What is defensive programming?
- A) Writing a program that does not contain run-time errors.
- B) Programming in a language that allows programmers to describe tasks at a higher conceptual level than machine code.
- C) Structuring programs and development processes in such a way that an error in one part of the program does not trigger a disastrous response.
- D) Writing a program that does not contain compile-time errors.

Answer: c

Section reference: 1.6 Errors

Title: What is defensive programming?

Difficulty: Easy

- 68. What is the term used to describe an error detected by the compiler that is a violation of the programming language rules?
- A) logic error
- B) compile-time error
- C) run-time error
- D) typo

Ans: B

Section Ref: Section 1.6 Errors

Title: Term describing an error violating the programming language rules.

- 69. What is another term used to describe an error detected by the compiler that is a violation of the programming language rules?
- A) typo

- B) logic error
- C) semantic error
- D) run-time error

Ans: C

Section Ref: Section 1.6 Errors

Title: Another term describing an error violating the programming language rules.

Difficulty: Easy

- 70. What is the term used to describe an error causing a program to take an action that the programmer did not intend?
- A) typo
- B) run-time error
- C) compile-time error
- D) syntax error

Ans: B

Section Ref: Section 1.6 Errors

Title: Term describing an error causing a program to take an action that the programmer did not intenD)

Difficulty: Easy

- 71. What is another term used to describe an error causing a program to take an action that the programmer did not intend?
- A) syntax error
- B) logic error
- C) mistake
- D) compile-time error

Ans: B

Section Ref: Section 1.6 Errors

Title: Another term describing an error causing a program to take an action that the programmer did not

intenD)

Difficulty: Easy

72. Which statement is true about the following Java statement:

```
System.out.Println("Welcome!");
```

- A) There are multiple errors.
- B) There are no errors.
- C) There is a run-time error.
- D) There is a compile-time error.

Ans: D

Section Ref: Section 1.6 Errors

Title: Which statement is true about the following Java statement?

## Difficulty: Easy

73. Assuming the programmer wishes to output the phrase "Hello!", which of the following is true about the following Java statement.

```
System.out.println("Welcme!");
```

- A) There are multiple errors.
- B) There is a run-time error.
- C) There are no errors.
- D) There is a compile-time error.

Ans: B

Section Ref: Section 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

74. Which statement is true about the following Java statement:

```
System.out.println("Welcome!");
```

- A) There are no errors.
- B) There is a run-time error.
- C) There are multiple errors.
- D) There is a compile-time error.

Ans: A

Section Ref: Section 1.6 Errors

Title: Which statement is true about the following Java statement?

Difficulty: Easy

75. Assuming the programmer wishes to output the phrase "Welcome!", which of the following is true about the following Java statement.

```
System.out.Println("Wlcome!");
```

- A) There are no errors.
- B) There is a compile-time error.
- C) There is a run-time error.
- D) There are multiple errors.

Ans: D

Section Ref: Section 1.6 Errors

Title: Which statement is true about the following Java statement?

76. Assume that the following Java statement is contained in the main method of the class named Welcome:
<pre>System.out.printLine("Welcome!");</pre>
What is the name of the file generated by the Java compiler?
A) Welcome.class B) Welcome.java C) No file is generated due to an error. D) Welcome
Ans: C Section Ref: Section 1.6 Errors Title: What is the name of the file generated by the Java compiler? Difficulty: Easy
<ul><li>77. Which statement is true about the compilation process?</li><li>A) The compiler will generate CPU specific instructions even if it detects an error.</li><li>B) The compiler will generate Java virtual machine instructions even if it detects an error.</li><li>C) The compiler will stop compiling when it finds the first error.</li><li>D) The compiler will continue compiling after it finds an error.</li></ul>
Ans: D Section Ref: Section 1.6 Errors Title: Which statement is true about the compilation process? Difficulty: Easy
78. Who or what is responsible for inspecting and testing the program to guard against logic errors?  A) JVM  B) programmer  C) end-user  D) compiler
Ans: B Section Ref: Section 1.6 Errors Title: Who/what is responsible for guarding against logic errors? Difficulty: Easy
79. Structuring programs and development processes in such a way that an error in one part of the program does not trigger a disastrous response is referred to as  A) high-level programming B) offensive programming C) defensive programming

D) low-level programming
Ans: C Section Ref: Section 1.6 Errors Title: Structuring programs and development processes in such a way that an error in one part of the program does not trigger a disastrous response is referred to as Difficulty: Easy
80. What are special software tools called that let you trace through a program to find run-time errors?  A) compiler  B) debugger  C) CPU  D) virtual machine  Ans: B
Section Ref: Section 1.6 Errors Title: What are special software tools called that let you trace through a program to find run-time errors? Difficulty: Easy
81. A step sequence that contains precise instructions for what to do at each step and where to go next is  A) unambiguous  B) terminating  C) executable  D) documented
Answer: a Section reference: 1.7 Problem Solving: Algorithm Design Title: A step sequence that contains precise instructions? Difficulty:
82. A step sequence that can be carried out in practice is  A) unambiguous  B) terminating  C) executable  D) documented
Answer: c Section reference: 1.7 Problem Solving: Algorithm Design Title: A step sequence that can be carried out in practice? Difficulty: Easy
83. A step sequence that eventually comes to an end is  A) unambiguous  B) terminating  C) executable  D) documented

Answer: b

Section reference: 1.7 Problem Solving: Algorithm Design Title: A step sequence that eventually comes to an end ...?

Difficulty: Easy

84. What is the purpose of the following algorithm?

somenum = 0
Repeat the following steps for 15 times
input variable1
if variable1 < somenum then
somenum = variable1
end of if
end of repeat
print somenum

- A) To search for a particular number among 15 numbers.
- B) To find the largest among 15 numbers.
- C) To print out the 15 numbers.
- D) To find the smallest among 15 numbers.

Answer: d

Title: What is the purpose of the following algorithm? Section reference: 1.7 Problem Solving: Algorithm Design

Difficulty: Easy

85. Evaluate the given pseudocode to calculate the efficiency of a vehicle's fuel consumption using the following test values:

The trip odometer reading (odometer) = 350 The amount to fill the gas tank (amount) = 12

input odometer input amount output odometer/amount

What is the final output?

- A) 27.7
- B) 29.2
- C) 34.4
- D) 32.3

Answer: b

Section reference: 1.7 Problem Solving: Algorithm Design

Title: What is output of this pseudocode with these test values?

Difficulty: Medium

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86. Evaluate the given pseudocode to calculate the weighted score for a student:
The average homework score (homework) = 95
The weight of homework (hwWeight) = 35%
The average exam score (exams) = 87
The weight of exams(exWeight) = 65%
input homework
input hwWeight
input exams
input exWeight
output homework*hwWeight + exams*exWeight
What is the final output?
A) 89.20
B) 89.80
C) 87.80
d.92.20
Answer: b
Section reference: 1.7 Problem Solving: Algorithm Design
Title: What is output of this pseudocode with these test values?
Difficulty: Medium
87. Evaluate the given pseudocode to calculate the payment (pmt) with the following test values:
The total number of hours worked (working_hours) = 60
The rate paid for hourly work (rate) = 12
input working_hours
input rate
pmt = working_hours * rate
if working_hours > 40 then
  extra_hours = working_hours - 40
  extra_pmt = extra_hours * rate
  pmt = pmt + extra_pmt
end of if
output pmt
What is the final output?
A) 960
b.840
c.240
d.720
Answer: a
Section reference: 1.7 Problem Solving: Algorithm Design
Title: What is output of this pseudocode with these test values?
Difficulty: Hard
```

- 88. What term is used to refer to an informal description of a sequence of steps for solving a problem?
- A) assembly language instructions
- B) pseudocode
- C) machine instructions for a specific CPU
- D) Java virtual machine instructions

Ans: B

Section Ref: Section 1.7 Problem Solving: Algorithm Design

Title: What term is used to refer to an informal description of a sequence of steps for solving a problem?

Difficulty: Easy

- 89. What term is used to refer to a sequence of steps for solving a problem that is unambiguous, executable, and terminating?
- A) documentation
- B) pseudoprogram
- C) algorithm
- D) comments

Ans: C

Section Ref: Section 1.7 Problem Solving: Algorithm Design

Title: What term is used to refer to a sequence of steps for solving a problem that is unambiguous,

executable, and terminating?

Difficulty: Easy

- 90. Which of the following options is true about algorithms?
- A) Algorithms are described informally and can contain ambiguous steps.
- B) Algorithms are written in a programming language.
- C) Algorithms can replace the source code in programs.
- D) You must create an algorithm for a problem before you can create a program to solve the problem.

Ans: D

Section Ref: Section 1.7 Problem Solving: Algorithm Design Title: Which of the following options is true about algorithms?

Difficulty: Easy

- 91. A step sequence is unambiguous when \_\_\_\_\_
- A) it will eventually come to an end.
- B) it is clearly documented.
- C) it can be carried out in practice.
- D) there are precise instructions for what to do at each step and where to go next.

Ans: D

Section Ref: Section 1.7 Problem Solving: Algorithm Design

Difficulty: Easy 92. A step sequence is executable when \_\_\_\_\_ A) it will eventually come to an end. B) it can be carried out in practice. C) it is documented. D) there are precise instructions for what to do at each step and where to go next. Ans: B Section Ref: Section 1.7 Problem Solving: Algorithm Design Title: A step sequence is executable when ...? Difficulty: Easy 93. A step sequence is terminating when \_\_\_ A) there are precise instructions for what to do at each step and where to go next. B) it will eventually come to an end. C) it can be documented. D) it can be carried out in practice. Ans: B Section Ref: Section 1.7 Problem Solving: Algorithm Design Title: A step sequence is terminating when ...? Difficulty: Easy 94. What is the purpose of the following algorithm? num = 0Repeat the following steps for 10 times input var1 if var1 > num then num = var1end of if end of repeat print num A) To print out the 10 numbers B) To search for a particular number among 10 numbers C) To find the largest among 10 numbers D) To find the smallest among 10 numbers Ans: C

Section Ref: Section 1.7 Problem Solving: Algorithm Design

Title: A step sequence is unambiguous when ...?

Title: What is the purpose of the following algorithm? Difficulty: Easy 95. Evaluate the given pseudocode to calculate the efficiency of a vehicle's fuel consumption using the following test values: The trip odometer reading (odometer) = 300The amount to fill the gas tank (amount) = 15 input odometer input amount output odometer/amount What is the final output? A) 15 B) 10 C) 30 D) 20 Ans: D Section Ref: Section 1.7 Problem Solving: Algorithm Design Title: What is output of this pseudocode with these test values? Difficulty: Medium 96. Evaluate the given pseudocode to calculate the weighted score for a student: The average program score (program) = 92The weight of programs (pgmWeight) = 40%The average exam score (exams) = 85The weight of exams(exWeight) = 60%input program input pgmWeight input exams input exWeight output program\*pgmWeight + exams\*exWeight What is the final output? A) 89.20 B) 87.80 C) 89.80 D) 92.20

Ans: B

Section Ref: Section 1.7 Problem Solving: Algorithm Design

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```
Title: What is output of this pseudocode with these test values?
Difficulty: Medium
97. Evaluate the given pseudocode to calculate the payment (pmt) with the following test values:
The total number of hours worked (working_hours) = 50
The rate paid for hourly work (rate) = 10
input working_hours
input rate
pmt = working_hours * rate
if working_hours > 40 then
  extra_hours = working_hours - 40
  extra_pmt = extra_hours * rate
  pmt = pmt + extra_pmt
end of if
output pmt
What is the final output?
A) 540
B) 580
C) 500
D) 600
Ans: D
Section Ref: Section 1.7 Problem Solving: Algorithm Design
Title: What is output of this pseudocode with these test values?
Difficulty: Hard
98. What is the correct order of the steps in the program development process:
i. Develop and describe the algorithm.
ii. Translate the algorithm into Java.
iii. Understand the problem.
iv. Compile and test the program.
 v. Test the algorithm with different inputs.
A) iii, i, ii, iv, v
B) i, ii, iv, v, iii
C) iii, i, v, ii, iv
D) i, iii, v, ii, iv
Ans: C
Section Ref: Section 1.7 Problem Solving: Algorithm Design
Title: What is the order of the steps in the program development process?
Difficulty: Easy
```