- 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.

Section Ref Section 1.1 Computer Programs

diff

Title Which statement best describes a computer program?

type mc

section 1.1 Computer Programs id testbank-bj-6-ch01-1

- 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. Answer
 - D. Small computer programs are not documented.

diff 1

Title Which statement regarding computer programs is correct?

type mc

section1.1 Computer ProgramsSection referenceSection 1.1 Computer Programs

id testbank-bj-6-ch01-2

- 3. What is an example of a typical instruction in a computer program?
 - A. Add up two numbers. Answer
 - B. Lay out a term paper.
 - C. Drive a car.
 - D. Display a fancy font.

diff

Title What is an example of a typical instruction in a computer program?

type mc

section1.1 Computer ProgramsSection referenceSection 1.1 Computer Programs

id testbank-bj-6-ch01-3

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

Section Ref Section 1.2 The Anatomy of a Computer

diff

Title What does CPU stand for?

type mc

section 1.2 The Anatomy of a Computer

- 5. 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 Answer
- D. Fetching and storing data from storage and input devices

Section Ref Section 1.2 The Anatomy of a Computer

diff

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

type mc

section 1.2 The Anatomy of a Computer

id testbank-bj-6-ch01-5

- 6. Which type of storage is made from electronic circuits that can store data?
 - A. compact disk (CD)
 - B. hard disk
 - C. primary storage Answer
 - D. secondary storage

Section Ref Section 1.2 The Anatomy of a Computer

diff

Title Which type of storage is made from electronic circuits that can store data?

type mc

section 1.2 The Anatomy of a Computer

id testbank-bj-6-ch01-6

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

Section Ref Section 1.2 The Anatomy of a Computer

diff

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

type mc

section 1.2 The Anatomy of a Computer

id testbank-bj-6-ch01-7

- 8. Which one of the following memory types provides storage that is slower and less expensive?
 - A. primary storage
 - B. secondary storage Answer
 - C. peripheral device
 - D. the transistor

Section Ref Section 1.2 The Anatomy of a Computer

diff

Title Which one of the following memory types provides storage that is slower and less expensive?

type mc

section 1.2 The Anatomy of a Computer

- 9. Which type of secondary storage consists of rotating platters coated with a magnetic material?
 - A. hard disk Answer
 - B. solid state drive
 - C. compact disk (CD)
 - D. memory

Section Ref Section 1.2 The Anatomy of a Computer diff **Title** Which type of secondary storage consists of rotating platters coated with a magnetic material? type section 1.2 The Anatomy of a Computer testbank-bj-6-ch01-9 id 10. Some computers are self-contained units; others are interconnected through what? A. bus B. networks Answer C. peripheral devices D. power lines **Section Ref** Section 1.2 The Anatomy of a Computer diff Title Some computers are self-contained units; others are interconnected through what? type 1.2 The Anatomy of a Computer section testbank-bj-6-ch01-10 id 11. Which is an example of a peripheral device? A. the CPU B. primary storage C. motherboard D. speakers Answer **Section Ref** Section 1.2 The Anatomy of a Computer diff **Title** Which is an example of a peripheral device? type section 1.2 The Anatomy of a Computer id testbank-bj-6-ch01-11 12. Which memory type does not provide persistent storage? A. secondary storage B. hard disk C. primary storage Answer D. DVD diff Title Which memory type does not provide persistent storage? type 1.2 The Anatomy of a Computer section **Section reference** 1.2 The Anatomy of a Computer id testbank-bj-6-ch01-12 13. Where must program instructions and data reside in order for the CPU to directly read and execute them? A. memory Answer B. bus C. hard disk D. somewhere on the computer network diff

Where must program instructions and data reside in order for the CPU to read and execute

Title

them?

section

mc

1.2 The Anatomy of a Computer

Section reference 1.2 The Anatomy of a Computer

id testbank-bj-6-ch01-13

- 14. What term is used to refer to the computer instructions that are executed by a CPU?
 - A. virtual machine
 - B. machine code Answer
 - C. high-level code
 - D. instruction set

Section Ref Section 1.3 The Java Programming Language

diff

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

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-14

- 15. What is the Java Virtual Machine?
 - A. A CPU that runs compiled Java code.
 - B. A library that makes it possible to write portable programs.
 - C. A program that simulates a real CPU running compiled Java code. Answer
 - D. A program that translates Java code into machine instructions.

diff 1

Title What is the JVM?

type mc

section1.3 The Java Programming LanguageSection reference1.3 The Java Programming Language

id testbank-bj-6-ch01-15

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

diff

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

type mc

section1.3 The Java Programming LanguageSection reference1.3 The Java Programming Language

id testbank-bj-6-ch01-16

- 17. 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 Answer
 - C. sophisticated
 - D. conceptual

Section Ref Section 1.3 The Java Programming Language

diff

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

conceptual level than machine code? **type** mc

section 1.3 The Java Programming Language

- 18. What tool translates high-level instructions into low level machine code?
 - A. debugger
 - B. assembler
 - C. compiler Answer
 - D. linker

Section Ref Section 1.3 The Java Programming Language

diff 1

Title What tool translates high-level instructions into low level machine code?

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-18

- 19. What tool translates Java source code into files that contain instructions for the Java Virtual Machine?
 - A. linker
 - B. compiler Answer
 - C. assembler
 - D. interpreter

Section Ref Section 1.3 The Java Programming Language

diff

Title What tool translates Java source code into files that contain instructions for the Java Virtual

Machine?

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-19

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

Section Ref Section 1.3 The Java Programming Langauge

diff 2

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

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-20

- 21. When was Java officially introduced?
 - A. 1991

B. 1995 Answer

C. 2000

D. 2005

Section Ref Section 1.3 The Java Programming Language

diff

Title When was Java officially introduced?

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-21

22. Which statement best describes the portability characteristic of Java?

- A. The same already-compiled Java programs will run on Windows, UNIX, Linux, or Macintosh operating systems without any change. Answer
- B. The same Java compiler can be used on many operating systems.
- C. There are only small differences between the Java programming language on different operating systems.
- D. It is easy to change a Java program so that it will work on different operating systems.

Section Ref Section 1.3 The Java Programming Language

diff 1

Title Which statement best describes the portability characteristic of Java?

type mc

section 1.3 The Java Programming Language

id testbank-bj-6-ch01-22

- 23. No matter which Java development environment you use, what happens to the Java source code in order for a Java program to execute?
 - A. The source code is automatically separated into many files.
 - B. The source code is backed up to a network storage facility.
 - C. A Java compiler converts all uppercase letters to lowercase.
 - D. A Java compiler translates the source code into class files. Answer

diff

Title Â No matter which Java development environment you use, what happens to the Java source

code in order for a Java program to execute?

type mc

section1.4 Becoming Familiar with Your Programming EnvironmentSection reference1.4 Becoming Familiar With Your Programming Environment

id testbank-bj-6-ch01-23

- 24. Why should you set aside time to become familiar with the programming environment?
 - A. The time you spend will prevent data loss without the need for backups.
 - B. The tools needed for Java programming are different from other software. Answer
 - C. Although computer systems vary widely, the Java programming environment is always the same.
 - D. The Java libraries are detailed and extensive.

diff

Title Why should you set aside time to become familiar with the programming environment?

type mc

section1.4 Becoming Familiar with Your Programming EnvironmentSection reference1.4 Becoming Familiar With Your Programming Environment

id testbank-bj-6-ch01-24

- 25. 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. Answer
 - D. Purchase an extended warranty for your computer.

Section Ref 1.4 Becoming Familiar With Your Programming Environment

diff

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

type mo

section 1.4 Becoming Familiar with Your Programming Environment

26. Which statement regarding backup strategies for Java files is correct? A. You should have multiple copies of your source files in different locations. Answer 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. diff Title Which one of the following statements regarding backup strategies for Java files is correct? type 1.4 Becoming Familiar with Your Programming Environment section **Section reference** 1.4 Becoming Familiar With Your Programming Environment testbank-bj-6-ch01-26 27. The line public class HelloPrinter indicates which declaration below? A. Declaration of the variable class. B. Declaration of the class HelloPrinter. Answer C. Declaration of the variable public. D. Declaration of the class public. diff Title The line public class HelloPrinter indicates which declaration below? type section 1.5 Analyzing Your First Program **Section reference** 1.5 Analyzing Your First Program testbank-bj-6-ch01-27 28. Every Java program consists of one or more of these fundamental building blocks. A. class Answer B. CPU C. applet D. parameter **Section Ref** Section 1.5 Analyzing Your First Program diff **Title** TB Every Java program consists of one or more of these fundamental building blocks. type section 1.5 Analyzing Your First Program testbank-bj-6-ch01-28 29. What is the name of the file that contains the Java source code for the public class HelloPrinter? A. HelloPrinter B. HelloPrinter.java Answer C. HelloPrinter.class D. HelloPrinter.txt **Section Ref** Section 1.5 Analyzing Your First Program diff What is the name of the file that contains the Java source code for this class? **Title** type section 1.5 Analyzing Your First Program testbank-bj-6-ch01-29 id 30. A contains sequences of programming instructions that describe how to perform a particular task.

A. parameter

B. labelC. variableD. method Answer	
Section Ref diff Title particular task. type section id	Section 1.5 Analyzing Your First Program A contains sequences of programming instructions that describe how to perform a mc 1.5 Analyzing Your First Program testbank-bj-6-ch01-30
31. What term is used to ref	er to an individual instruction inside a method?
A. statement Answer B. constant C. comment D. object	
Section Ref diff Title type section id	Section 1.5 Analyzing Your First Program 1 What term is used to refer to an individual instruction inside a method? mc 1.5 Analyzing Your First Program testbank-bj-6-ch01-31
32. In Java, every statement	must end with which symbol?
A B.) C. ! D. ; Answer	
Section Ref diff Title type section id	Section 1.5 Analyzing Your First Program In Java, every statement must end with this symbol. mc 1.5 Analyzing Your First Program testbank-bj-6-ch01-32
33. What term is used to ref	er to a sequence of characters enclosed in quotation marks?
A. string Answer B. object C. comment D. variable	
Section Ref diff Title type section id	Section 1.5 Analyzing Your First Program 1 What term is used to refer to a sequence of characters enclosed in quotation marks? mc 1.5 Analyzing Your First Program testbank-bj-6-ch01-33
34 What term is used to ref	er to values supplied to a method that are needed to carry out its task?

A. class
B. object
C. argument
D. comment
Answer

Section Ref Section 1.5 Analyzing Your First Program

diff

Title What term is used to refer to values supplied to a method that are needed to carry out its task?

type mc

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-34

35. Arguments supplied to methods are enclosed by which symbols?

A. () Answer B. " " C. {} D. //

Section Ref Section 1.5 Analyzing Your First Program

diff

Title Arguments supplied to methods are enclosed by which symbols?

type mc

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-35

36. Whenever a method is called in Java, what must be specified?

- A. program name, method name
- B. strings, method name
- C. method name, arguments Answer
- D. the main method, arguments

Section Ref Section 1.5 Analyzing Your First Program

diff

Title Whenever a method is called in Java, what must be specified?

type mc

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-36

37. 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");
```

Section Ref Section 1.5 Analyzing Your First Program

diff

Title What is the syntax for calling the println method on the object System.out?

type mc

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-37

38. What is the name of the method in the given method call?

_

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

A. "Welcome" B. System

C. println Answer

D. out

Section Ref Section 1.5 Analyzing Your First Program

diff

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

type mc section 1.5 Analyzing Your First Program id testbank-bj-6-ch01-38

39. What is the argument in the given method call?

System.out.println("Welcome");

A. out B. println

C. "Welcome" Answer

D. System

Section Ref Section 1.5 Analyzing Your First Program

diff

Title What is the argument in the given method call?

type mc

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-39

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

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

A. 10

B. 46

C. 4

D. 4 + 6 Answer

Section Ref Section 1.5 Analyzing Your First Program

diff

Title What is the output of the following Java statement?

type mo

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-40

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

System.out.println(4 + 6);

A.4 + 6

B. 4

C. 10 Answer

D. 46

Section Ref Section 1.5 Analyzing Your First Program

diff

Title What is the output of the following Java statement?

type me

section 1.5 Analyzing Your First Program

id testbank-bj-6-ch01-41

42. Which statement is true about the following Java code fragment:

System.out.println("Hello!);

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

diff

Title Which statement is true about the following Java code fragment?

typemcsection1.6 ErrorsSection reference1.6 Errors

id testbank-bj-6-ch01-42

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

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

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

diff 1

Title Which statement is true about the following Java code fragment?

type mc section 1.6 Errors Section reference 1.6 Errors

id testbank-bj-6-ch01-43

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

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

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

diff

Title Which statement is true about the following Java code fragment?

type mc section 1.6 Errors Section reference 1.6 Errors

id testbank-bj-6-ch01-44

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

```
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

diff 1

Title Which statement is true about the following Java code fragment?

typemcsection1.6 ErrorsSection reference1.6 Errors

id testbank-bj-6-ch01-45

46. 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. Answer
- D. Hello.class

diff 1

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

typemcsection1.6 ErrorsSection reference1.6 Errors

id testbank-bj-6-ch01-46

- 47. What is a logic error?
 - A. A violation of the rules of the computer language.
 - B. A missing main method.
 - C. A program that is syntactically correct but does not do what it is supposed to do. Answer
 - D. An error that is so severe that it generates an exception.

diff 1

Title What is a logic error?

typemcsection1.6 ErrorsSection reference1.6 Errors

id testbank-bj-6-ch01-47

- 48. 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 Answer
 - C. run-time error
 - D. typo

Section Ref Section 1.6 Errors

diff

Title Term describing an error violating the programming language rules.

type mc section 1.6 Errors

id testbank-bj-6-ch01-48

- 49. Other than compile-time error, 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. syntax error Answer
 - D. run-time error

Section Ref Section 1.6 Errors

diff

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

type mc section 1.6 Errors

id testbank-bj-6-ch01-49

50. 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 Answer C. compile-time error
- D. syntax error

Section Ref Section 1.6 Errors

diff

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

intend)

type mc section 1.6 Errors

id testbank-bj-6-ch01-50

- 51. Other than run-time error, 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 Answer
 - C. mistake
 - D. compile-time error

Section Ref Section 1.6 Errors

diff

Title Another term describing an error causing a program to take an action that the programmer did

not intend)

type mc section 1.6 Errors

id testbank-bj-6-ch01-51

- 52. 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. Answer

Section Ref Section 1.6 Errors

diff

Title Which statement is true about the following Java statement?

type mc section 1.6 Errors

id testbank-bj-6-ch01-52

- 53. 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. Answer
 - C. There are no errors.
 - D. There is a compile-time error.

Section Ref Section 1.6 Errors

diff

Title Which statement is true about the following Java statement?

type mc section 1.6 Errors

54. Assuming the programmer wishes to output the phrase "Welcome!", Which statement is true about the following Java statement:

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

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

Section Ref Section 1.6 Errors

diff

Title Which statement is true about the following Java statement?

type mc section 1.6 Errors

id testbank-bj-6-ch01-54

55. 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. Answer

Section Ref Section 1.6 Errors

diff

Title Which statement is true about the following Java statement?

type mc section 1.6 Errors

id testbank-bj-6-ch01-55

- 56. Assume that the main method of the class named Welcome does not contain any compile-time errors. What is the name of the file generated by the Java compiler?
 - A. Welcome.class Answer
 - B. Welcome.java
 - C. No additional file is generated.
 - D. Welcome

Section Ref Section 1.6 Errors

diff

Title Assume that the main method of the class named Welcome does not contain any compile-time

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

type mc section 1.6 Errors

id testbank-bj-6-ch01-56

- 57. Which statement is true about the compilation process?
 - A. The compiler will generate CPU specific instructions even if it detects an error.
 - B. The compiler will generate Java virtual machine instructions even if it detects an error.
 - C. The compiler will stop compiling when it finds the first error.
 - D. The compiler will continue compiling after it finds an error. Answer

Section Ref Section 1.6 Errors

diff

Title Which statement is true about the compilation process?

type mc

section 1.6 Errors

id testbank-bj-6-ch01-57

58. Who or what is responsible for inspecting and testing the program to guard against logic errors?

A. JVM

B. programmer Answer

C. end-user

D. compiler

Section Ref Section 1.6 Errors

diff

Title Who/what is responsible for ... guarding against logic errors?

type mc section 1.6 Errors

id testbank-bj-6-ch01-58

59. If you get a sequence of error messages from the compiler that are increasingly off track, you should

- A. check for division by zero
- B. restructure your code to make it more readable
- C. check for spelling, capitalization, or missing quotation marks Answer
- D. include more of your code within themain method

Section Ref Section 1.6 Errors

diff

Title If you get a sequence of error messages from the compiler that are increasingly off track, you

should

type mc section 1.6 Errors

id testbank-bj-6-ch01-59

60. The error message "cannot find symbol" is usually a good clue that what kind of error has been made?

A. logic

B. spelling Answer

C. run-time

D. division by zero

Section Ref Section 1.6 Errors

diff

Title The error message "cannot find symbol" is usually a good clue that what kind of error has been

made?

type mc section 1.6 Errors

id testbank-bj-6-ch01-60

61. A sequence of steps that contains precise instructions for what to do at each step and where to go next is

A. unambiguous Answer

B. terminatingC. executableD. documented

diff

Title A sequence of steps that contains precise instructions...?

type mc

section1.7 Problem Solving: Algorithm DesignSection reference1.7 Problem Solving: Algorithm Design

62. A sequence of steps that ca	an be carried out in practice is
A. unambiguous B. terminating C. executable D. documented	
diff Title type section Section reference id	A sequence of steps that can be carried out in practice? mc 1.7 Problem Solving: Algorithm Design 1.7 Problem Solving: Algorithm Design testbank-bj-6-ch01-62
63. A sequence of steps that ev	entually comes to an end is
A. unambiguous B. terminating Answer C. executable D. documented	
diff Title type section Section reference id	A sequence of steps that eventually comes to an end? mc 1.7 Problem Solving: Algorithm Design 1.7 Problem Solving: Algorithm Design testbank-bj-6-ch01-63
64. What is the purpose of the	following algorithm?
input somenum Repeat the following st input variable1 if variable1 < somenum somenum = variable; print somenum	n then
A. To search for a partic B. To find the largest an C. To print out the 15 m D. To find the smallest a	umbers.
diff Title type section Section reference id	What is the purpose of the following algorithm? mc 1.7 Problem Solving: Algorithm Design 1.7 Problem Solving: Algorithm Design testbank-bj-6-ch01-64
65. Evaluate the given pseudoc following test values, round	ode to calculate the efficiency of a vehicle's fuel consumption using the ded to one decimal place:
The trip odometer reading	(odometer) = 350
The amount to fill the gas t	ank (amount) = 12

```
input odometer
input amount
output odometer/amount
```

What is the final output?

A. 27.7

B. 29.2 Answer

C. 34.4

D. 32.3

diff 2

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

type mc

section1.7 Problem Solving: Algorithm DesignSection reference1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-65

66. Evaluate the given pseudocode to calculate the weighted score for a student:

The homework score (homework) = 95

The weight of homework (hwWeight) = 35%

The 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 Answer

C. 87.80

D. 92.20

diff 2

Title What is the final output?

type mo

section1.7 Problem Solving: Algorithm DesignSection reference1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-66

67. 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
output pmt
```

What is the final output?

A. 960 Answer

B. 840C. 240D. 720

diff 3

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

type mc

section1.7 Problem Solving: Algorithm DesignSection reference1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-67

- 68. 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 Answer
 - C. machine instructions for a specific CPU
 - D. Java virtual machine instructions

Section Ref Section 1.7 Problem Solving: Algorithm Design

diff

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

problem?

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-68

- 69. 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 Answer
 - D. comments

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diff

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

executable, and terminating?

type mo

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- 70. 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. Answer

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Title Which of the following options is true about algorithms?

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-70

- 71. A sequence of steps 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. Answer

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Title A sequence of steps is unambiguous when ...?

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-71

- 72. A sequence of steps is executable when _____
 - A. it will eventually come to an end.
 - B. it can be carried out in practice. Answer
 - C. it is documented.
 - D. there are precise instructions for what to do at each step and where to go next.

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diff 1

Title A sequence of steps is executable when ...?

type mo

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-72

- 73. A sequence of steps 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. Answer
 - C. it can be documented.
 - D. it can be carried out in practice.

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diff 1

Title A sequence of steps is terminating when ...?

type mc

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id testbank-bj-6-ch01-73

74. What is the purpose of the following algorithm?

input num

Repeat the following steps for 9 times input var1

```
if var1 > num then
num = var1
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 Answer
- D. To find the smallest among 10 numbers

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Title What is the purpose of the following algorithm?

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-74

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

The trip odometer reading (odometer) = 300

The 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 Answer

Section Ref Section 1.7 Problem Solving: Algorithm Design

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

type me

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-75

76. Evaluate the given pseudocode to calculate the weighted score for a student:

The program score (program) = 92

The weight of programs (pgmWeight) = 40%

The exam score (exams) = 85

The 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 Answer

C. 89.80

D. 92.20

Section Ref Section 1.7 Problem Solving: Algorithm Design

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

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-76

77. 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 Answer

Section Ref Section 1.7 Problem Solving: Algorithm Design

diff

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

type mo

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- 78. 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 Answer

D. i, iii, v, ii, iv

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Title What is the order of the steps in the program development process?

type mc

section 1.7 Problem Solving: Algorithm Design

id testbank-bj-6-ch01-78

- 79. Pseudocode must be
 - i. Unambiguous.
 - ii. Syntactically correct code.
 - iii. Readable by a human.
 - iv. Indicative of results of an algorithm.

A. i, ii

B. i, ii, iii

C. i, iii, iv Answer

D. ii, iii, iv

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diff

Title Pseudocode must be

type mc

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