Section 4 (Answer all questions in this section) 1Suppose that str1 and str2 are two strings. Which of the statements or Mark for . expressions are valid? Review (1) Points \circ String str3 = str1 - str2; \bullet str1 += str2; (*) \circ str1 >= str2 \circ Str1 -= str2; Correct 2The following program prints "Not Equal". True or false? Mark for Review String s="abcdef"; 1 (1) Points if (s.charAt (3) == 'd') 2 System.out.println("Equal"); 3 4 else System.out.println("Not Equal"); 5 6 True False (*) Incorrect. Refer to Section 4 Lesson 4. 3The == operator can be used to compare two String objects. The result is Mark for . always true if the two strings are have the exact same characters in each Review position of the String. True or false? (1) Points True • False (*) Incorrect. Refer to Section 4 Lesson 4. 4What will the following code segment output? Mark for Review String s="\\\n\"\n\\\\n\\""; (1) Points System.out.println(s);

o \"\"

'' (*)	
o "	
\ "	
_	
"	
▼ Correct	
$5\mbox{Which}$ of the following creates a String reference named s and instantiates . it?	Mark for Review (1) Points
(Choose all correct answers)	
✓ String s=""; (*)	
□ s="s";	
▼ String s;	
☐ String s=new String("s"); (*)	
▼ Incorrect. Refer to Section 4 Lesson 4.	
Page 1 of 10	
Section 4 (Answer all questions in this section)	
6. For every opening curly brace { there does not need to be a closing curly brace} for the program to compile without error. True or False?	Mark for Review (1) Points
True	
C False (*)	
☒ Incorrect. Refer to Section 4 Lesson 1.	
7. Multiple windows are used when more than one file is open in the edit area. True or False?	Mark for Review (1) Points
C True	
• False (*)	
▼ Correct	

	you run a Java Application, the results are window. True or False?		Mark for Review (1) Points
True			
• False (*)			
Correct			
	rovide views to help you navigate a mation. True or False?		Mark for Review (1) Points
True			
• False (*)			
Correct			
10. Thestore and save you	is the location into which you will ir files.		Mark for Review (1) Points
Perspective			
Workspace (*)		
Editor			
 None of the a 	bove		
🔀 Incorrect. R	tefer to Section 4 Lesson 1.		
Page 2 of 10			
he following defines a package keyword: Mark for Review (1) Points			
,	O Defines where this class lives relative		
	to other classes, and provides a level of		
	access control. (*)		
	 Provides the compiler information that identifies outside classes used within the current class. 	ıt	
	Precedes the name of the class.		
	X Incorrect. Refer to Section 4 Lesson	2.	

12.	Which of the following defines an object class?	Mark for Review (1) Points
	Contains a main method and other static methods.Contains classes that define objects.	
	 (*) Contains a main method, a package, static methods, and classes that define objects. None of the above. 	
	✓ Correct	
13.	What two values can a boolean variable have?	Mark for Review (1) Points
	 Numbers and characters 	
	• True and false (*)	
	 Relational and logic operators 	
	 Arithmetic and logic operators 	
	 Integers and floating point types 	
	✓ Correct	
14.	What is the result when the following code segment is compiled and executed?	Mark for Review (1) Points
	int $x = 22$, $y = 10$; double $p = Math.sqrt((x + y)/2)$; System.out.println(p);	
	Syntax error "sqrt(double) in java.lang.Math cannot be applied to int"	
	4.0 is displayed (*)	
	2.2 is displayed	
	5.656854249492381 is displayed	
	 ClassCastException 	
	X Incorrect. Refer to Section 4 Lesson 3.	
Section 5 (Answer all questions in this	s section)	
-		MICD
	1	Mark for Review

		(1) Points
>,<,=	,!,<=,>=	
• >,<,=	=,!=,<=,>= (*)	
>,<,=		
>,<,=	,!=,=<,=>	
✓ Corr	ect	
Answer a	ll questions in this section)	
m	Thich of the following correctly atches the switch statement eyword to its function?	Mark for Review (1) Points
(0	Choose all correct answers)	
	switch: tells the compiler the value to compare the input against	
	default: signals what code to execute if the input does not match any of the cases (*)	
~	case: signals what code is executed if the user input matches the specified	
	element (*)	
	if: records the user's input and sends it to the case statements to find a possible match	
	switch: identifies what element will be compared to the element of the case statements to find a possible match (*)	
	Incorrect. Refer to Section 5 Lesson 1.	
	etermine whether this boolean appression evaluates to true or	Mark for Review (1) Points

false:

!(3<4&&6>6||6<=6&&7-2==6)

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Section 5

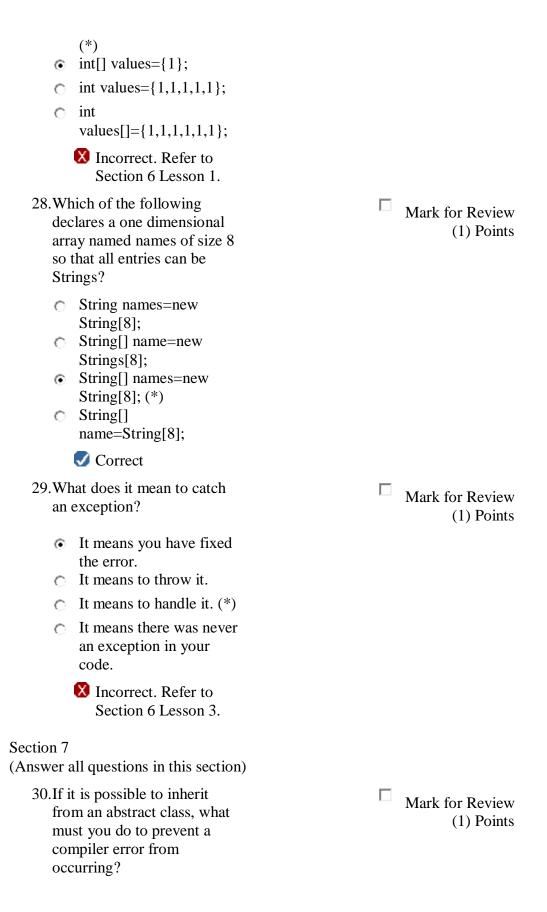
		• False	
		▼ Incorrect. Refer to Section 5 Lesson 1.	
	18.	In a for loop the counter is not automatically incremented after each loop iteration. Code must be written to increment the counter. True or false?	Mark for Review (1) Points
		• True (*)	
		False	
		▼ Correct	
	19.	Why are loops useful?	Mark for Review (1) Points
		 They save programmers from having to rewrite code. They allow for repeating code a variable number of times. They allow for repeating code until a certain argument is met. All of the above. (*) 	
		Correct	
	20.	When the for loop condition statement is met the construct is exited. True or false? True	Mark for Review (1) Points
		• False (*)	
		♥ Correct	
Page 4 of 10 Binary searches can be performe d on sorted	Mark for Review (1) Points		

True (*)

and unsorted data. True or false?		
	• True	
	C False (*)	
	☑ Incorrect. Refer to Section 6 Lesson 2.	
22.	A sequntial search is an iteration through the array that stops at the index where the desired element is found. True or false?	Mark for Review (1) Points
	• True (*)	
	False	
	✓ Correct	
23.	Which of the following is the correct lexicographical order for the conents of the int array?	☐ Mark for Review
	{17, 1, 1, 83, 50, 28, 29, 3, 71, 22}	(1) Points
	{71, 1, 3, 28,29, 50, 22, 83, 1, 17}	
	\[\{83, 71, 50, 29, 28, 22, 17, 3, 1, 1\} \]	
	6 {1, 1, 17, 22, 28, 29, 3, 50, 71, 83}	
	{1, 2, 7, 0, 9, 5, 6, 4, 8, 3}	
	(*)	
	▼ Incorrect. Refer to Section 6 Lesson 2.	
24.	Which of the following is a sorting algorithm that involves repeatedly incrementing through the array and swapping 2 adjacent values if they are in the wrong order until all elements are in the correct order?	Mark for Review (1) Points
	 Selection Sort 	
	 Merge Sort 	
	C Bubble Sort (*)	
	 Sequential Search 	
	Binary Search	
	▼ Incorrect. Refer to Section 6 Lesson 2.	
25.	What will be the content of the array variable table after executing the following code?	☐ Mark for

```
1
                           int[][] table=new int[3][3];
                                                                              (1) Points
                      2
                                 for(int i=0; i<3; i++)
                      3
                                   for(int j=0; j<3; j++)
                      4
                                     if (j<=i)
                      5
                                      table[i][j] = 1;
                      6
                  0.111
                      0 1 1
                      0.01
                  • 100
                      010
                      001
                  0.100
                      110
                      111(*)
                  001
                      010
                      100
                                 Incorrect. Refer to Section 6 Lesson 1.
Section 6
  (Answer all questions in this section)
      26. Which of the following
                                                          Mark for Review
        declares and initializes a two
                                                                 (1) Points
        dimensional array that can
        hold 6 Object reference
        types?
         String[] array=new
            String[6];
         Object array=new
            Object[6];
         Object[][] array=new
            Object[2][3]; (*)
         String[][]
            array=String[6];
           Correct
     27. Which of the following
                                                          Mark for Review
        declares and initializes a one
                                                                 (1) Points
        dimensional array named
        values of size 5 so that all
        entries contain 1?
         \cap int[] values={1,1,1,1,1};
```

Review



(0	Choose all correct answers)	
	inherit from an abstract class.	
	Create all new methods and variables different from the parent class.	
V	Override all abstract methods from the parent	
V	class. (*) Declare the child class as abstract. (*)	
	✓ Correct	
Page 6 of	f 10	
Section 7		
(Answei	all questions in this section)	
31. V	What is Polymorphism?	Mark for Review (1) Points
C	A way of redefining methods with the same return type and parameters.	
	A way to create multiple methods with the same name but different parameters.	
	A class that cannot be initiated.	
0	The concept that a variable or reference can hold multiple types of objects. (*)	
	✓ Correct	
32. A	abstract classes cannot implement interfaces. True or false?	Mark for Review (1) Points
(True	
6	False (*)	
	✓ Correct	
	Which of the following creates an object from the Animal class listed elow:	Mark for Review (1) Points

```
1
            public class Animal {
      2
            private int weight, height;
            Animal (int w, int h) {
       3
            weight=w;
       4
       5
            height=w;
       6
            }
      7
       8
           }
   Animal cat=new Animal();
   Animal cat=Animal(50,30);
   Animal cat=new Animal(50,30); (*)
   Animal cat=new Animal(50);
     Correct
34. Which of the following creates an instance of the class below?
                                                                       Mark for
                                                                       Review
            public class ThisClass {
                                                                     (1) Points
            private int a=4, b=5;
      2
      3
            ThisClass(int x) {
       4
                 a=x*b;
       5
       6
           1
   ThisClass t=new ThisClass();
   ThisClass t;
   ThisClass t=new ThisClass(3,4);
   ThisClass t=new ThisClass(5); (*)
     Incorrect. Refer to Section 7 Lesson 1.
35. Which of the following creates a method that compiles with no errors
                                                                       Mark for
   in the class?
                                                                       Review
                                                                     (1) Points
   \bigcirc
```

```
public class ThisClass{
               2
                    private int a=4, b=5;
               3
                    public int calculate() {
               4
                    a=a+b;
               5
                    return a;
               6
               7
               8
                    }
               9
        \bigcirc
               1
                    public class ThisClass{
               2
                    private int a=4, b=5;
                    public int calculate() { a=a+b; return a;}
           (*)
                    public class ThisClass{
               1
                     public int a=4, b=5; public int calculat
         All of the above.
         None of the above.
           Incorrect, Refer to Section 7 Lesson 1.
             Page 7 of 10
Section 7
                          (Answer all questions in this section)
                              36. Java's garbage collection is when
                                                                     Mark for Review
                                  all references to an object are
                                                                           (1) Points
                                 gone, the memory used by the
                                 object is automatically
                                 reclaimed. True or false?
                                    True (*)
                                  False
                                     Correct
                              37. If the return type from a method
                                                                     Mark for Review
                                  is boolean then 2.5 is a valid
                                                                           (1) Points
                                 return value. True or false?
                                  True
                                  • False (*)
```

1

✓ Correct	
38. A class always has a constructor. True or false?	Mark for Review (1) Points
• True (*)	
False	
✓ Correct	
39. Which segment of code represents a correct way to define a variable argument method?	Mark for Review (1) Points
 String easyArray(String elems) {//code} (*) String easyArray(String elems) {//code} String easyArray(String elems) {//code} Integer easyArray (int elems) {//code} 	
✓ Correct	
40. How is it possible for overloading to work?	Mark for Review (1) Points
 There is no such thing as overloading. The code has to be declared as private. The interpreter doesn't care what you name your constructors. Java Virtual Machine searches until it finds a constructor name and argument type match. (*) Correct 	
Page 8 of 10 Section 7	
(Answer all questions in this section)	
41. Which of the following specifies accessibility to variables,	Mark for Review

	met	thods, and classes?	(1) Points
	0	Methods	
	0	Parameters	
	Ö	Overload constructors	
	•	Access modifiers (*)	
	ı	V Correct	
42.		ich of the following could be ason to return an object?	Mark for Review (1) Points
	0	Because you wish to be able to use that object inside of the method.	· ,
	0	It has faster performance than returning a primitive	
	•	type. The method makes changes to the object and you wish to continue to use the updated object outside of the method.	
		(*) None of the above. It is not possible to return an object.	
		✓ Correct	
43.	def	ich of the following is the inition for a variable ument method?	Mark for Review (1) Points
	0	A way to create a new class.	
	0	Specifies accessibility to	
	0	code. Having more than one constructor with the same name but different arguments.	
	•	A type of argument that enables calling the same method with a different number of arguments. (*)	
		▼ Correct	
44.		tatic variable is always blicly available. True or false?	Mark for Review (1) Points

	TrueFalse (*)	
	Correct	
	45. Static methods can't change any class variable values at run-time. True or false?	Mark for Review (1) Points
	True	
	• False (*)	
	Correct	
Page 9 of 1	0	
Section 7	(Anguan all associons in this socion)	
	(Answer all questions in this section)	
	46. Non-final static class variables should be private to prevent changes from other classes. True or false?	Mark for Review (1) Points
	• True (*)	
	• False	
	Incorrect. Refer to Section 7 Lesson 3.	
	47. Why is it not possible to extend more than one class at a time in an inheritance hierarchy chain?	Mark for Review (1) Points
	considering all public content is passed from super class to subclass and further to their subclass and that subclass' subclass and so on. (*)	
	Because the computer cannot handle code that	
	complex. To prevent confusion for the	
	programmer.	
	This possible to extend more than one class at a time.	

		✓ Correct	
48.	dec	cording to the following class claration, runSpeed can be dified in class Cat. True or se?	Mark for Review (1) Points
	-	blic class Tiger extends Cat{ blic int runSpeed;	
	\circ	True	
	•	False (*)	
		Correct	
49.		cribes the use of the keyword er?	Mark for Review (1) Points
	0	A keyword that restricts access to only inside the same class.	
	•	A keyword that allows subclasses to access methods, data, and constructors from their parent class. (*)	
		A keyword that signals the end of a program. A keyword that allows access from anywhere.	
		Correct	
50.		y are hierarchies useful for eritance?	Mark for Review (1) Points
	0	They keep track of where you are in your program.	
	0	They restrict a superclass to only have one subclass.	
	0	They organize constructors and methods in a simplified	
	•	fashion. They are used to organize the relationship between a superclass and its subclasses. (*)	

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