Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
1. Which of the following correctly defines a queue?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
2. A HashSet is a set that is similar to an ArrayList. A HashSet does not have any specific ordering. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
3. Which of the following correctly initializes an object named cell of the class Telephones whose generic type is Cellular?	☐ Mark for Review (1) Points
<ul> <li>Telephones cell = new Telephones(Cellular c);</li> <li>Telephones(Cellular) cell = new Telephones(Cellular);</li> <li>Telephones</li> <li>Telephones cell = new Telephones</li> <li>Telephones cell = new Telephones(); (*)</li> <li>None of the above.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
4. What is a set?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>a collection of elements that does not contain duplicates. (*)</li> <li>a keyword in Java that initializes an ArrayList.</li> <li>a collection of elements that contains duplicates.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
5. A LinkedList is a list of elements that is dynamically stored. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. When would an enum (or enumeration) be used?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>When you want to be able to create any number of objects of that class.</li> <li>When you wish to initialize a HashSet.</li> <li>When you wish to remove data from memory.</li> <li>When you already know all the possibilities for objects of that class. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
7. Which scenario best describes a stack?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom. (*)</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave.</li> <li>All of the above describe a stack.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
8. Which of the following methods adds a Key-Value map to a HashMap?	Mark for Review (1) Points
<ul><li>put(Key, Value) (*)</li><li>add(Key, Value)</li><li>get(Key, Value)</li><li>remove(Key, Value)</li></ul>	
Incorrect. Refer to Section 3 Lesson 2.	
9. What are maps that link a Key to a Value?	Mark for Review (1) Points
<ul><li>Arrays</li><li>ArrayLists</li><li>HashSets</li><li>HashMaps (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 2.	
10. These are a list of elements that have a first in last out ordering.	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>Arrays</li> <li>Stacks (*)</li> <li>HashMaps</li> <li>Enums</li> </ul> Correct	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
11. Which of the following correctly initializes a generic class Telephones with one generic type Type1?	Mark for Review (1) Points
<ul> <li>public class Telephones(Type1 T){//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones(Type1) {//code here}</li> <li>None of the above. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
12. Why can a LinkList be considered a stack and a queue?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ Because you can add elements to the end of it. (*)</li> <li>☑ Because you can add element to the beginning of it. (*)</li> <li>□ Because you can remove elements from the end of it. (*)</li> <li>☑ Because you can remove elements from the beginning of it. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
13. Which scenario best describes a queue?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom.</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave. (*)</li> <li>All of the above describe a queue.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
14. Classes define and implement what?	Mark for Review (1) Points
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods (*)</li> <li>constants and all methods with implementations</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
15. Abstract classes define what?	Mark for Review (1) Points
<ul> <li>some methods with implementations (*)</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> <li>Incorrect. Refer to Section 3 Lesson 1.</li> </ul> Previous Page 3 of 10 Next Summary	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
16. Virtual method invocation occurs when you call a superclass method for a subclass with an overriding method of the same name. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
17. The instanceof operator only works with class instances. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
18. A downward cast of a subclass lets you access a subclass specialized method call. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
19. Classes can be made immutable by placing a final key word before all method implementations. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
20. Virtual method invocation occurs when you call a method from a superclass. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
21. The instanceof operator works with class instances and primitive data types. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
22. A method with public access can be subclassed.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
23. A method with public access level can be subclassed by?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
24. A upward cast means all instance variables of the subclass are permanently lost to the instance. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
25. Modeling business problems requires understanding the interaction between interfaces, abstract and concrete classes, subclasses, and enum classes. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
26. Upward casting an object instance means you can't access subclass specific methods. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
27. The Files class provides a instance method that creates a new BufferedReader.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
28. Serialized classes are less flexible to change than non-serialized classes.  True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
29. The BufferedOutputStream is a direct subclass of what other class?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
FilterOutputStream (*) OutputStream PrintStream DigestOutputStream ObjectOutputStream	
Incorrect. Refer to Section 3 Lesson 5.	
30. The System.in is what type of stream?	Mark for Review (1) Points
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream</li> <li>An InputStream (*)</li> <li>A BufferedReader stream</li> <li>A Reader stream</li> <li>Correct</li> </ul>	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
31. The java.io package has problems with missing operations, like copy, move, and such. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
32. The serialize() method writes a serialized object.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
33. The java.nio.file package has improved exception handling.  True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
34. The Files class performs which of the following?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>navigate the file system</li> <li>create files (*)</li> <li>works with relative paths</li> <li>works with absolute paths</li> <li>works across disk volumes</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
35. What symbol is used to separate multiple exceptions in one catch statement?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>&amp;&amp;</li> <li>(==) (equals equals)</li> <li>None, multiple exceptions can't be handled in one catch statement.</li> <li>A single bar:   (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
36. When do you use try-catch statements?	Mark for Review (1) Points
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
37. The finally clause only executes when an exception is not caught and thrown.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
38. Methods can not throw exceptions.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
39. Assertions are boolean statements to test and debug your programs. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
40. In what order do multiple catch statements execute?	Mark for Review (1) Points
<ul> <li>The order they are declared in ( most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.  Section 3 (Answer all questions in this section)  41. When is the proper time to use exceptions?  When you want to print statements to the screen.  When you want to efficiently and reliably debug your program. (*)  If you purposefully put errors in your code you wish to handle.  Every time a new method is called.  Incorrect. Refer to Section 3 Lesson 4.  42. When should you not use assertions?  (Choose all correct answers)  When you want your program to execute efficiently  When you want to check the values of parameters. (*)  When you believe you have no bugs in your code.  Incorrect. Refer to Section 3 Lesson 4.  43. Multiple exceptions can be caught in one catch statement.  True or false?  True (*)  False  Correct  44. What is the function of the asterisk (*) in regular expressions?  Indicates that the preceding character may occur 1 or more times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper match.  Indicates that the preceding character may occur 0 or 1 times in a proper ma		
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42. When should you not use assertions?    Mark for Review (1) Points   Choose all correct answers     When you want your program to execute efficiently     When you want to check the values of parameters. (*)     When you all methods that may cause side effects in your assertion check. (*)     When you believe you have no bugs in your code.   ★ Incorrect. Refer to Section 3 Lesson 4.   43. Multiple exceptions can be caught in one catch statement.	<ul><li>When you want to efficiently and reliably debug your program. (*)</li><li>If you purposefully put errors in your code you wish to handle.</li></ul>	
(Choose all correct answers)	Incorrect. Refer to Section 3 Lesson 4.	
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<ul> <li>☑ When you want to check the values of parameters. (*)</li> <li>☐ When you call methods that may cause side effects in your assertion check. (*)</li> <li>☑ When you believe you have no bugs in your code.</li> <li>☒ Incorrect. Refer to Section 3 Lesson 4.</li> <li>43. Multiple exceptions can be caught in one catch statement. True or false?</li> <li>☐ Mark for Review (1) Points</li> <li>⑥ True (*)</li> <li>⑥ False</li> <li>☑ Correct</li> <li>44. What is the function of the asterisk (*) in regular expressions?</li> <li>☐ Mark for Review (1) Points</li> <li>☐ The asterisk has no function in regular expressions.</li> <li>⑥ Indicates that the preceding character may occur 1 or more times in a proper match.</li> <li>ⓒ Indicates that the preceding character may occur 0 or 1 times in a proper match.</li> <li>ⓒ Indicates that the preceding character may occur 0 or more times in a proper match.</li> <li>ⓒ Indicates that the preceding character may occur 0 or more times in a proper match.</li> <li>ⓒ Indicates that the preceding character may occur 0 or more times in a proper match.</li> <li>ⓒ Incorrect. Refer to Section 3 Lesson 3.</li> <li>45. Consider that you are writing a program for analyzing feedback on the video game you have developed. You have completed everything except the segment of code that checks that the user's input, String userI, is a valid rating. Note that a valid rating is a single digit between 1 and 5</li> </ul>	(Choose all correct answers)	
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<ul> <li>Indicates that the preceding character may occur 1 or more times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or 1 times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or more times in a proper match. (*)</li> <li>Incorrect. Refer to Section 3 Lesson 3.</li> <li>Consider that you are writing a program for analyzing feedback on the video game you have developed. You have completed everything except the segment of code that checks that the user's input, String userI, is a valid rating. Note that a valid rating is a single digit between 1 and 5</li> </ul>	44. What is the function of the asterisk (*) in regular expressions?	
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2	developed. You have completed everything except the segment of code that checks that the user'	s (1) Points
(Choose all correct answers)	(Choose all correct answers)	
<pre>return userI.matches("[1-5]"); (*) return userI.matches("{1-5}"); return userI.matches("[1-5].*"); return userI.matches("[1-5]{1}"); (*)</pre>	return userI.matches("{1-5}");  return userI.matches("[1-5].*");	
Incorrect. Refer to Section 3 Lesson 3.  Previous Page 9 of 10 Next Summary		

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
46. Matcher has a find method that checks if the specified pattern exists as a sub-string of the string being matched. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
47. Which of the following does not correctly match the regular expression symbol to its proper function?	Mark for Review (1) Points
"{x}" means there must be x occurrences of the preceding character in the string to be a match.	
"?" means there may be zero or one occurrences of the preceding character in the string to be a match.	
<ul> <li>"+" means there may be zero or more occurrences of the preceding character in the string to be a match. (*)</li> </ul>	
<ul><li>"{x,}" means there may be x or more occurrences of the preceding character in the string to</li></ul>	
be a match.  "{x,y}" means there may be between x and y occurrences of the preceding character in the string to be a match.	
Correct	
<b>48</b> . Square brackets are a representation for any character in regular expressions "[]". True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
49. The following code correctly initializes a pattern with the regular expression "[0-9]{2}/[0-9]{2}/[0-9]{2}/". Pattern dateP = Pattern.compile("[0-9]{2}/[0-9]{2}/[0-9]{2}"); True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
50. What is the correct explanation of when this code will return true? return str.matches(".* [0-9]{6}.*");	Mark for Review (1) Points
<ul> <li>Any time that str contains two dots.</li> <li>Any time that str contains a sequence of 6 digits. (*)</li> <li>Any time that str has between zero and nine characters followed by a 6.</li> <li>Any time str contains a 6.</li> <li>Always.</li> <li>Incorrect. Refer to Section 3 Lesson 3.</li> </ul>	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
1. Which of the following methods for the String class take a regular expression as a parameter and returns true if the string matches the expression?	Mark for Review (1) Points
<ul> <li>equals(String regex)</li> <li>equalsIgnoreCase(String regex)</li> <li>compareTo(String regex)</li> <li>matches(String regex) (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
2. Which of the following methods are specific to StringBuilders?	Mark for Review (1) Points
<ul> <li>append</li> <li>delete</li> <li>inssert</li> <li>replace</li> <li>All of the above. (*)</li> </ul>	
✓ Correct	
3. Which of the following methods can be used to replace a segment in a string with a new string?	Mark for Review (1) Points
remove(String oldString, String newString) replaceAll(String oldString, String newString) (*) replaceAll(String newString) substring(int start, int end, String newString) None of the above. There is no replaceAll(String newString) method with one argument.	
<b>✓</b> Correct	
4. Which of the following does not correctly match the regular expression symbol to its proper function?	Mark for Review (1) Points
"{x}" means there must be x occurrences of the preceding character in the string to be a	
match.  "?" means there may be zero or one occurrences of the preceding character in the string to be a match.	
"+" means there may be zero or more occurrences of the preceding character in the string to be a match. (*)	
<ul> <li>"{x,}" means there may be x or more occurrences of the preceding character in the string to be a match.</li> <li>"{x,y}" means there may be between x and y occurrences of the preceding character in the</li> </ul>	
string to be a match.	
Incorrect. Refer to Section 3 Lesson 3.	
5. Split is a method for Strings that parses a string by a specified character, or, if unspecified, by spaces, and returns the parsed elements in an array of Strings. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
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Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. Matcher has a find method that checks if the specified pattern exists as a sub-string of the string being matched. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
7. Consider that you are making a calendar and decide to write a segment of code that returns true if the string month is April, May, June, or July. Which code segment correctly implements use of regular expressions to complete this task?	Mark for Review (1) Points
return month.matches("April May June July"); (*) return month.substring(0,3); return month.compareTo("April, May, June, July"); return month.equals("April, May, June, July"); return month.matches("April" "May" "June" "July");	
Incorrect. Refer to Section 3 Lesson 3.	
8. The System.in is what type of stream?	Mark for Review (1) Points
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream</li> <li>An InputStream (*)</li> <li>A BufferedReader stream</li> <li>A Reader stream</li> </ul>	
Correct	
9. The System.out is what type of stream?	Mark for Review (1) Points
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream (*)</li> <li>A BufferedReader stream</li> <li>An OutputStream</li> <li>A Reader stream</li> </ul>	
✓ Correct	
10. The Paths class provides a static get() method to find a valid Path. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
11. The System.err writes standard output to the console. True or false?	☐ Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
12. You can read input by character or line.  True or false?	☐ Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
13. The java.nio.file package has improved exception handling. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
14. The serialize() method writes a serialized object. True or false?	☐ Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
15. The Files class performs which of the following?	☐ Mark for Review (1) Points
<ul> <li>navigate the file system</li> <li>create files (*)</li> <li>works with relative paths</li> <li>works with absolute paths</li> <li>works across disk volumes</li> </ul>	
✓ Correct	

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Test: Java Programming Final Exam  Povious your anguers, feedback, and question scores below. An actorick (*) indicates a correct anguer.	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
16. Which of the following correctly initializes an object named cell of the class Telephones whose generic type is Cellular?	Mark for Review (1) Points
<ul> <li>Telephones cell = new Telephones(Cellular c);</li> <li>Telephones(Cellular) cell = new Telephones(Cellular);</li> <li>Telephones</li> <li>Telephones cell = new Telephones(); (*)</li> <li>None of the above.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
17. The local petting zoo is writing a program to be able to collect be able to group animals according to species to better keep track of what animals they have. Which of the following correctly defines a collection that may create these types of groupings for each species at the zoo?	Mark for Review (1) Points
<ul> <li>public class     animalCollection {} (*)</li> <li>public class     animalCollection(AnimalType T) {}</li> <li>public class     animalCollection {}</li> <li>public class     animalCollection(animalType) {}</li> <li>None of the above.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
18. What is a set?	Mark for Review (1) Points
<ul> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;&gt;.</li> <li>a collection of elements that does not contain duplicates. (*)</li> <li>a keyword in Java that initializes an ArrayList.</li> <li>a collection of elements that contains duplicates.</li> <li>Incorrect. Refer to Section 3 Lesson 2.</li> </ul>	
19. These are a list of elements that have a first in last out ordering.	Mark for Review (1) Points
Arrays Stacks (*) HashMaps Enums	
Correct	
20. Which of the following correctly defines a queue?	Mark for Review (1) Points
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
21. When would an enum (or enumeration) be used?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>When you want to be able to create any number of objects of that class.</li> <li>When you wish to initialize a HashSet.</li> <li>When you wish to remove data from memory.</li> <li>When you already know all the possibilities for objects of that class. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
22. A LinkedList is a list of elements that is dynamically stored.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
23. Which scenario best describes a stack?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom. (*)</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave.</li> <li>All of the above describe a stack.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
24. Why can a LinkList be considered a stack and a queue?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ Because you can add elements to the end of it. (*)</li> <li>☑ Because you can add element to the beginning of it. (*)</li> <li>□ Because you can remove elements from the end of it. (*)</li> <li>☑ Because you can remove elements from the beginning of it. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
25. Which scenario best describes a queue?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom.</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave. (*)</li> <li>All of the above describe a queue.</li> <li>Incorrect. Refer to Section 3 Lesson 2.</li> </ul> Previous Page 5 of 10 Next Summary	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
26. A HashSet is a set that is similar to an ArrayList. A HashSet does not have any specific ordering. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
27. What is the correct way to initialize a HashSet?	Mark for Review (1) Points
<pre>ClassMates = public class HashSet();  String classMates = new String(); HashSet classMates = new HashSet(); (*) classMates = new HashSet[String]();</pre>	
Incorrect. Refer to Section 3 Lesson 2.	
28. Which of the following correctly initializes a generic class Telephones with one generic type Type1?	Mark for Review (1) Points
<ul> <li>public class Telephones(Type1 T){//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones(Type1) {//code here}</li> <li>None of the above. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
29. The finally clause only executes when an exception is not caught and thrown. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
30. Methods can not throw exceptions.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
31. When should you not use assertions?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>When you want your program to execute efficiently</li> <li>When you want to check the values of parameters. (*)</li> <li>When you call methods that may cause side effects in your assertion check. (*)</li> <li>When you believe you have no bugs in your code.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
32. Why should you not use assertions to check parameters?	Mark for Review (1) Points
<ul> <li>Assertions can be disabled at run time which may cause unexpected results in your assertions (*)</li> <li>Assertions do not work on parameters</li> <li>Not all methods have parameters, therefore assertions should never be used on parameters</li> <li>It is hard to assume expected values for parameters</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
33. When do you use try-catch statements?	Mark for Review (1) Points
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
✓ Correct	
34. When is the proper time to use exceptions?	Mark for Review (1) Points
<ul> <li>When you want to print statements to the screen.</li> <li>When you want to efficiently and reliably debug your program. (*)</li> <li>If you purposefully put errors in your code you wish to handle.</li> <li>Every time a new method is called.</li> </ul>	
✓ Correct	
35. Multiple exceptions can be caught in one catch statement.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
36. In what order do multiple catch statements execute?	Mark for Review (1) Points
<ul> <li>The order they are declared in (most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
37. What symbol is used to separate multiple exceptions in one catch statement?	Mark for Review (1) Points
<ul> <li>&amp;&amp;</li> <li>(==) (equals equals)</li> <li>None, multiple exceptions can't be handled in one catch statement.</li> <li>A single bar:   (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
38. Virtual method invocation requires that the superclass method is defined as which of the following.	Mark for Review (1) Points
<ul> <li>A public static method.</li> <li>A private final method.</li> <li>A public method. (*)</li> <li>A public final method.</li> <li>A default final method.</li> </ul>	
Correct	
39. Modeling business problems requires understanding the interaction between interfaces, abstract and concrete classes, subclasses, and enum classes. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
40. A method with default access can be subclassed. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
41. Calling a subclass method by referring to a superclass works because you have access to all specialized methods through virtual method invocation. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
42. The instanceof operator works inside an if statement.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
<b>43</b> . Virtual method invocation occurs when you call a method from a superclass. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
<b>44.</b> A upward cast means all instance variables of the subclass are permanently lost to the instance. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
45. Classes define and implement what?	Mark for Review (1) Points
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods (*)</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
46. A method with public access level can be subclassed by?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
47. The instanceof operator works with class instances and primitive data types. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
<b>48.</b> A downward cast of a subclass lets you access a subclass specialized method call. True or false?	☐ Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
49. Immutable classes can be subclassed.  True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
50. Abstract classes define what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations (*)</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<ol> <li>Assertions are boolean statements to test and debug your programs.</li> <li>True or false?</li> </ol>	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
2. Methods can not throw exceptions.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
3. When is the proper time to use exceptions?	☐ Mark for Review (1) Points
<ul> <li>When you want to print statements to the screen.</li> <li>When you want to efficiently and reliably debug your program. (*)</li> <li>If you purposefully put errors in your code you wish to handle.</li> <li>Every time a new method is called.</li> </ul>	
✓ Correct	
4. When do errors occur in code?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
(Choose all correct answers)	
<ul><li>■ When there is an error in your logic. (*)</li><li>■ When and exception is thrown (*)</li></ul>	
<ul><li>When hardware issues occur (e.g., not enough memory). (*)</li><li>When files are not found or are unreadable. (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
5. In what order do multiple catch statements execute?	Mark for Review (1) Points
<ul> <li>The order they are declared in ( most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. What is an exception?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A consistent way of handling various errors. (*)</li> <li>An error that occurs against the flow of your program.</li> <li>When a file fails to open.</li> <li>If your program exits before you expect it to.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
7. The finally clause only executes when an exception is not caught and thrown. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
8. When do you use try-catch statements?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
9. What symbol is used to separate multiple exceptions in one catch statement?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>&amp;&amp;</li> <li>(==) (equals equals)</li> <li>None, multiple exceptions can't be handled in one catch statement.</li> <li>A single bar:   (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
10. The local petting zoo is writing a program to be able to collect be able to group animals according to species to better keep track of what animals they have. Which of the following correctly defines a collection that may create these types of groupings for each species at the zoo?	Mark for Review (1) Points
<ul> <li>public class         animalCollection {} (*)</li> <li>public class         animalCollection(AnimalType T) {}</li> <li>public class         animalCollection {}</li> <li>public class         animalCollection(animalType) {}</li> <li>None of the above.</li> </ul>	
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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
11. When would an enum (or enumeration) be used?	Mark for Review (1) Points
<ul> <li>When you want to be able to create any number of objects of that class.</li> <li>When you wish to initialize a HashSet.</li> <li>When you wish to remove data from memory.</li> <li>When you already know all the possibilities for objects of that class. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
12. What is a set?	Mark for Review (1) Points
<ul> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>a collection of elements that does not contain duplicates. (*)</li> <li>a keyword in Java that initializes an ArrayList.</li> <li>a collection of elements that contains duplicates.</li> </ul>	
Correct	
13. A List is an ordered Collection that may contain duplicate elements. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
14. Which scenario best describes a queue?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom.</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave. (*)</li> <li>All of the above describe a queue.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
15. Which of the following correctly adds "Cabbage" to the ArrayList vegetables?	Mark for Review (1) Points
<pre>vegetables += "Cabbage"; vegetables.get("Cabbage"); vegetables[0] = "Cabbage"; vegetables.add("Cabbage"); (*)</pre>	
Incorrect. Refer to Section 3 Lesson 2.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
16. Which of the following correctly defines a queue?	Mark for Review (1) Points
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
✓ Correct	
17. Which of the following correctly initializes a generic class Telephones with one generic type Type1?	Mark for Review (1) Points
<ul> <li>public class Telephones(Type1 T){//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones(Type1) {//code here}</li> <li>None of the above. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
18. A HashSet is a set that is similar to an ArrayList. A HashSet does not have any specific ordering. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
19. What is the correct way to initialize a HashSet?	Mark for Review (1) Points
<ul> <li>ClassMates = public class     HashSet();</li> <li>String classMates = new     String();</li> <li>HashSet classMates =     new HashSet(); (*)     classMates = new HashSet[String]();</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
20. These are a list of elements that have a first in last out ordering.	Mark for Review (1) Points
<ul> <li>Arrays</li> <li>Stacks (*)</li> <li>HashMaps</li> <li>Enums</li> </ul> Correct	
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Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
21. What is wrong with the following declaration of the ArrayList of strings arr? ArrayList(String) arr = new ArrayList(String)<>;	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>Only the 1st occurrence of "(String)" should be replaced with ""</li> <li>The angled brackets "&lt;&gt;" need to be replaced with parenthesis "()" and parenthesis "()"need to be replaced by "&lt;&gt;" (*)</li> <li>Both occurences of "(String)" should be replaced with "" (*)</li> <li>Nothing, this declaration is correct.</li> </ul>	
✓ Correct	
22. A LinkedList is a list of elements that is dynamically stored.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
23. Which of the following methods for the String class take a regular expression as a parameter and returns true if the string matches the expression?	Mark for Review (1) Points
<ul><li>equals(String regex)</li><li>equalsIgnoreCase(String regex)</li><li>compareTo(String regex)</li><li>matches(String regex) (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
24. Which of the following are true about the method split?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>It can be used with a string as a parameter. (*)</li> <li>It's default, with no specified parameter, is parsing by spaces.</li> <li>It returns an array of strings. (*)</li> <li>It can be used with a regular expression as a prameter. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
25. Which of the following correctly defines Matcher?	Mark for Review (1) Points
<ul> <li>a regular expression symbol that represents any character.</li> <li>a method of dividing a string into a set of sub-strings.</li> <li>a class in the java.util.regex package that stores the matches between a pattern and a string.</li> <li>(*)</li> <li>a class in the java.util.regex package that stores the format of a regular expression.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
26. Square brackets are a representation for any character in regular expressions "[]". True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
27. Consider that you are writing a program for analyzing feedback on the video game you have developed. You have completed everything except the segment of code that checks that the user's input, String userI, is a valid rating. Note that a valid rating is a single digit between 1 and 5 inclusive. Which of the following segments of code returns true if the user's input is a valid rating?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ return userI.matches("[1-5]"); (*)</li> <li>☑ return userI.matches("{1-5}");</li> <li>☑ return userI.matches("[1-5].*");</li> <li>□ return userI.matches("[1-5]{1}"); (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
28. What is the correct explanation of when this code will return true? return str.matches(".* [0-9]{6}.*");	Mark for Review (1) Points
<ul> <li>Any time that str contains two dots.</li> <li>Any time that str contains a sequence of 6 digits. (*)</li> <li>Any time that str has between zero and nine characters followed by a 6.</li> <li>Any time str contains a 6.</li> <li>Always.</li> </ul>	
✓ Correct	
29. Which of the following does not correctly match the regular expression symbol to its proper function?	Mark for Review (1) Points
"{x}" means there must be x occurrences of the preceding character in the string to be a	
match.  "?" means there may be zero or one occurrences of the preceding character in the string to be a match.	
"+" means there may be zero or more occurrences of the preceding character in the string to	
be a match. (*)  "{x,}" means there may be x or more occurrences of the preceeding character in the string to be a match.	
"{x,y}" means there may be between x and y occurrences of the preceding character in the string to be a match.	
✓ Correct	
30. Which of the following is an absolute Windows path?	Mark for Review (1) Points
/home/user/username	
<ul><li>\( \text{\Users\UserName\data} \)</li><li>\( \text{\Users\UserName\data} \)</li><li>\( \text{\data} \)</li><li>\( \text{\data} \)</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
31. The java.io package has problems with missing operations, like copy, move, and such. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
32. The deSerialize() method writes a serialized object.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
33. Encoding an object into a stream is serialization.  True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
34. The java.nio.file package has improved exception handling.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
35. The System.out is what type of stream?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream (*)</li> <li>A BufferedReader stream</li> <li>An OutputStream</li> <li>A Reader stream</li> </ul> Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<b>36</b> . The serialize() method writes a serialized object. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
37. The BufferedInputStream is a direct subclass of what other class?	Mark for Review (1) Points
<ul> <li>InputStream</li> <li>FilterInputStream (*)</li> <li>InputStream</li> <li>FileInputStream</li> <li>PipedInputStream</li> </ul>	
✓ Correct	
38. Modeling business problems requires understanding the interaction between interfaces, abstract and concrete classes, subclasses, and enum classes. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
39. Immutable classes do allow instance variables to be changed by overriding methods. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
40. The instanceof operator works with class instances and primitive data types. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect, Refer to Section 3 Lesson 1.	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
41. A method with public access can be subclassed.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
42. Classes define and implement what?	Mark for Review (1) Points
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods (*)</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
43. Classes can be made immutable by placing a final key word before all method implementations. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
44. Abstract classes define what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations (*)</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
45. Interfaces define what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations (*)</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul> Correct Previous Page 9 of 10 Next Summary	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
46. Virtual method invocation requires that the superclass method is defined as which of the following.	Mark for Review (1) Points
<ul> <li>A public static method.</li> <li>A private final method.</li> <li>A public method. (*)</li> <li>A public final method.</li> <li>A default final method.</li> </ul>	
Correct	
47. Virtual method invocation occurs when you call a superclass method for a subclass with an overriding method of the same name. True or false?	■ Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
48. Immutable classes can be subclassed.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
49. A method with public access level can be subclassed by?	Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
50. Virtual method invocation is:	Mark for Review (1) Points
<ul> <li>Not part of polymorphism.</li> <li>When the method of a superclass is used on a superclass reference.</li> <li>When the method of a subclass is used on a superclass reference. (*)</li> <li>When the method of a subclass is used on a subclass reference.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
1. The BufferedOutputStream is a direct subclass of what other class?	Mark for Review (1) Points
<ul> <li>FilterOutputStream (*)</li> <li>OutputStream</li> <li>PrintStream</li> <li>DigestOutputStream</li> <li>ObjectOutputStream</li> </ul>	
Correct	
2. The Files class performs which of the following?	Mark for Review (1) Points
<ul> <li>navigate the file system</li> <li>create files (*)</li> <li>works with relative paths</li> <li>works with absolute paths</li> <li>works across disk volumes</li> </ul>	
Correct	
3. Serialized classes are less flexible to change than non-serialized classes. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
4. Encoding an object into a stream is serialization. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
5. The System.in is what type of stream?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream</li> <li>An InputStream (*)</li> <li>A BufferedReader stream</li> <li>A Reader stream</li> <li>Correct</li> </ul>	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. The Files class provides a instance method that creates a new BufferedReader. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
7. The System.err writes standard output to the console. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
8. The Paths class provides a static get() method to find a valid Path.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
9. Which of the following correctly defines a repetition operator?	Mark for Review (1) Points
<ul> <li>a symbol that represents any character in regular expressions.</li> <li>a method that returns the number of occurrences of the specified character.</li> <li>any symbol in regular expressions that indicates the number of occurrences a specified character appears in a matching string. (*)</li> <li>None of the above.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
10. Which of the following methods can be used to replace a segment in a string with a new string?	Mark for Review (1) Points
<ul> <li>remove(String oldString, String newString)</li> <li>replaceAll(String oldString, String newString) (*)</li> <li>replaceAll(String newString)</li> <li>substring(int start, int end, String newString)</li> <li>None of the above. There is no replaceAll(String newString) method with one argument.</li> </ul>	
▼ Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
11. Split is a method for Strings that parses a string by a specified character, or, if unspecified, by spaces, and returns the parsed elements in an array of Strings. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
12. Which of the following are true about the method split?	Mark for Review (1) Points
(Choose all correct answers)	
■ It can be used with a string as a parameter. (*)	
It's default, with no specified parameter, is parsing by spaces.	
It returns an array of strings. (*)	
It can be used with a regular expression as a prameter. (*)	
Incorrect. Refer to Section 3 Lesson 3.	
13. Consider that you are making a calendar and decide to write a segment of code that returns true if the string month is April, May, June, or July. Which code segment correctly implements use of regular expressions to complete this task?	Mark for Review (1) Points
<ul> <li>return month.matches("April May June July"); (*)</li> <li>return month.substring(0,3);</li> <li>return month.compareTo("April, May, June, July");</li> <li>return month.equals("April, May, June, July");</li> <li>return month.matches("April" "May" "June" "July");</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
14. What is the function of the asterisk (*) in regular expressions?	Mark for Review (1) Points
<ul> <li>The asterisk has no function in regular expressions.</li> <li>Indicates that the preceding character may occur 1 or more times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or 1 times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or more times in a proper match. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
15. Which of the following methods for the String class take a regular expression as a parameter and returns true if the string matches the expression?	Mark for Review (1) Points
<ul><li>equals(String regex)</li><li>equalsIgnoreCase(String regex)</li><li>compareTo(String regex)</li><li>matches(String regex) (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
16. Which scenario best describes a queue?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom.</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave. (*)</li> <li>All of the above describe a queue.</li> </ul>	
✓ Correct	
17. Which of the following correctly adds "Cabbage" to the ArrayList vegetables?	Mark for Review (1) Points
<pre>vegetables += "Cabbage"; vegetables.get("Cabbage"); vegetables[0] = "Cabbage"; vegetables.add("Cabbage"); (*)</pre>	
Incorrect. Refer to Section 3 Lesson 2.	
18. What are maps that link a Key to a Value?	Mark for Review (1) Points
<ul><li>Arrays</li><li>ArrayLists</li><li>HashSets</li><li>HashMaps (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 2.	
19. Why can a LinkList be considered a stack and a queue?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ Because you can add elements to the end of it. (*)</li> <li>☑ Because you can add element to the beginning of it. (*)</li> <li>□ Because you can remove elements from the end of it. (*)</li> <li>☑ Because you can remove elements from the beginning of it. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
20. Which of the following correctly initializes an object named cell of the class Telephones whose generic type is Cellular?	Mark for Review (1) Points
<ul> <li>Telephones cell = new Telephones(Cellular c);</li> <li>Telephones(Cellular) cell = new Telephones(Cellular);</li> <li>Telephones</li> <li>Cellular c);</li> <li>Telephones cell = new Telephones(); (*)</li> <li>None of the above.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
21. Which scenario best describes a stack?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom. (*)</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave.</li> <li>All of the above describe a stack.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
22. Which of the following methods adds a Key-Value map to a HashMap?	Mark for Review (1) Points
<ul><li>put(Key, Value) (*)</li><li>add(Key, Value)</li><li>get(Key, Value)</li><li>remove(Key, Value)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
23. Which of the following correctly defines a queue?	Mark for Review (1) Points
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
Correct	
24. Define a Collection	Mark for Review (1) Points
<ul> <li>It enables you to create a generic class without specifying a type between angle brackets &lt;&gt;</li> <li>It is a special type of class that is associated with one or more non-specified Java type.</li> <li>It is an interface in the java.util package that is used to define a group of objects (*)</li> <li>It is a subclass of List</li> </ul>	
✓ Correct	
25. What is wrong with the following declaration of the ArrayList of strings arr?  ArrayList(String) arr = new ArrayList(String)<>;	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>Only the 1st occurrence of "(String)" should be replaced with ""</li> <li>The angled brackets "&lt;&gt;" need to be replaced with parenthesis "()" and parenthesis "()"need to be replaced by "&lt;&gt;" (*)</li> <li>Both occurrences of "(String)" should be replaced with "" (*)</li> <li>Nothing, this declaration is correct.</li> </ul>	
Correct	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
26. A List is an ordered Collection that may contain duplicate elements. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
27. Which of the following correctly initializes a generic class Telephones with one generic type Type1?	Mark for Review (1) Points
<ul> <li>public class Telephones(Type1 T){//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones(Type1) {//code here}</li> <li>None of the above. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
28. Nodes are components of LinkedLists that are like maps because they identify where the next and previous nodes are. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
29. A method with public access level can be subclassed by?	Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
30. The instanceof operator only works with class instances.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<b>31</b> . The instanceof operator finds subclasses when they are passed as a superclass. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
32. Upward casting an object instance means you can't access subclass specific methods. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
33. Abstract classes define what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations (*)</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
34. Classes define and implement what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations</li> <li>variables and methods (*)</li> <li>constants and all methods with implementations</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
<b>35</b> . A downward cast of a subclass lets you access a subclass specialized method call. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<b>36</b> . The instanceof operator works with class instances and primitive data types. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
37. Interfaces define what?	Mark for Review (1) Points
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations (*)</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul>	
✓ Correct	
38. Immutable classes do allow instance variables to be changed by overriding methods. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
39. Modeling business problems requires understanding the interaction between interfaces, abstract and concrete classes, subclasses, and enum classes. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
<b>40</b> . Classes can be made immutable by placing a final key word before all method implementations. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
41. A method with default access level can be subclassed by?	Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
42. When should you not use assertions?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ When you want your program to execute efficiently</li> <li>☑ When you want to check the values of parameters. (*)</li> <li>□ When you call methods that may cause side effects in your assertion check. (*)</li> <li>☑ When you believe you have no bugs in your code.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
43. When do errors occur in code?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ When there is an error in your logic. (*)</li> <li>☑ When and exception is thrown (*)</li> <li>□ When hardware issues occur (e.g., not enough memory). (*)</li> <li>☑ When files are not found or are unreadable. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
44. Why should you not use assertions to check parameters?	Mark for Review (1) Points
<ul> <li>Assertions can be disabled at run time which may cause unexpected results in your assertions (*)</li> <li>Assertions do not work on parameters</li> <li>Not all methods have parameters, therefore assertions should never be used on parameters</li> <li>It is hard to assume expected values for parameters</li> <li>Incorrect. Refer to Section 3 Lesson 4.</li> </ul>	
45. What is an exception?	Mark for Review (1) Points
<ul> <li>A consistent way of handling various errors. (*)</li> <li>An error that occurs against the flow of your program.</li> <li>When a file fails to open.</li> <li>If your program exits before you expect it to.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
46. When do you use try-catch statements?	Mark for Review (1) Points
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
47. Methods can not throw exceptions.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
48. In what order do multiple catch statements execute?	Mark for Review (1) Points
<ul> <li>The order they are declared in (most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
49. Multiple exceptions can be caught in one catch statement. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
50. The finally clause only executes when an exception is not caught and thrown. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 4.	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<ol> <li>Assertions are boolean statements to test and debug your programs.</li> <li>True or false?</li> </ol>	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
2. In what order do multiple catch statements execute?	Mark for Review (1) Points
<ul> <li>The order they are declared in (most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
3. When do you use try-catch statements?	Mark for Review (1) Points
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
4. The finally clause only executes when an exception is not caught and thrown.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 4.	
5. When do errors occur in code?	Mark for Review (1) Points
(Choose all correct answers)	
<ul><li>When there is an error in your logic. (*)</li><li>When and exception is thrown (*)</li><li>When hardware issues occur (e.g., not enough memory). (*)</li></ul>	
When files are not found or are unreadable. (*)	
Incorrect. Refer to Section 3 Lesson 4.	

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Summary

Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. What is an exception?	Mark for Review (1) Points
<ul> <li>A consistent way of handling various errors. (*)</li> <li>An error that occurs against the flow of your program.</li> <li>When a file fails to open.</li> <li>If your program exits before you expect it to.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
7. Why should you not use assertions to check parameters?	Mark for Review (1) Points
<ul> <li>Assertions can be disabled at run time which may cause unexpected results in your assertions (*)</li> <li>Assertions do not work on parameters</li> <li>Not all methods have parameters, therefore assertions should never be used on parameters</li> <li>It is hard to assume expected values for parameters</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
8. When is the proper time to use exceptions?	Mark for Review (1) Points
<ul> <li>When you want to print statements to the screen.</li> <li>When you want to efficiently and reliably debug your program. (*)</li> <li>If you purposefully put errors in your code you wish to handle.</li> <li>Every time a new method is called.</li> </ul>	
Correct	
9. When should you not use assertions?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>When you want your program to execute efficiently</li> <li>When you want to check the values of parameters. (*)</li> <li>When you call methods that may cause side effects in your assertion check. (*)</li> <li>When you believe you have no bugs in your code.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 4.	
10. The Files class provides a instance method that creates a new BufferedReader. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
11. The java.io package has problems with missing operations, like copy, move, and such. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
12. Serialized classes are less flexible to change than non-serialized classes. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
13. Encoding an object into a stream is serialization. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
14. Which of the following is an absolute Windows path?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
/home/user/username /	
<ul><li>\Users\UserName\data</li><li>C:\Users\UserName\data (*)</li><li>data</li></ul>	
Incorrect. Refer to Section 3 Lesson 5.	
15. The System.in is what type of stream?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream</li> <li>An InputStream (*)</li> <li>A BufferedReader stream</li> <li>A Reader stream</li> <li>Incorrect. Refer to Section 3 Lesson 5.</li> </ul>	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
16. The System.err writes standard output to the console. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
17. The Files class performs which of the following?	Mark for Review (1) Points
<ul> <li>navigate the file system</li> <li>create files (*)</li> <li>works with relative paths</li> <li>works with absolute paths</li> <li>works across disk volumes</li> </ul>	
Incorrect. Refer to Section 3 Lesson 5.	
18. Which of the following methods adds a Key-Value map to a HashMap?	Mark for Review (1) Points
<ul><li>put(Key, Value) (*)</li><li>add(Key, Value)</li><li>get(Key, Value)</li><li>remove(Key, Value)</li></ul>	
Correct	
19. Define a Collection	Mark for Review (1) Points
<ul> <li>It enables you to create a generic class without specifying a type between angle brackets &lt;&gt;</li> <li>It is a special type of class that is associated with one or more non-specified Java type.</li> <li>It is an interface in the java.util package that is used to define a group of objects (*)</li> <li>It is a subclass of List</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
20. Nodes are components of LinkedLists that are like maps because they identify where the next and previous nodes are. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
21. What is the correct way to initialize a HashSet?	Mark for Review (1) Points
<pre>ClassMates = public class HashSet(); String classMates = new String(); HashSet classMates = new HashSet(); (*) classMates = new HashSet[String]();</pre>	
Incorrect. Refer to Section 3 Lesson 2.	
22. Which of the following correctly defines a queue?	Mark for Review (1) Points
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
23. Which of the following correctly initializes a generic class Telephones with one generic type Type 1?	Mark for Review (1) Points
<ul> <li>public class Telephones(Type1 T){//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones {//code here}</li> <li>public class Telephones(Type1) {//code here}</li> <li>None of the above. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
24. What are maps that link a Key to a Value?	Mark for Review (1) Points
<ul><li>Arrays</li><li>ArrayLists</li><li>HashSets</li><li>HashMaps (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
25. Which of the following correctly initializes an object named cell of the class Telephones whose generic type is Cellular?	Mark for Review (1) Points
<ul> <li>Telephones cell = new Telephones(Cellular c);</li> <li>Telephones(Cellular) cell = new Telephones(Cellular);</li> <li>Telephones&lt;&gt; cell = new Telephones&lt;&gt; (Cellular c);</li> <li>Telephones cell = new Telephones(); (*)</li> <li>None of the above.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
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Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
26. The local petting zoo is writing a program to be able to collect be able to group animals according to species to better keep track of what animals they have. Which of the following correctly defines a collection that may create these types of groupings for each species at the zoo?	Mark for Review (1) Points
<ul> <li>public class animalCollection {} (*)</li> <li>public class animalCollection(AnimalType T) {}</li> <li>public class animalCollection {}</li> <li>public class animalCollection(animalType) {}</li> <li>None of the above.</li> </ul>	
Correct	
27. Which scenario best describes a stack?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom. (*)</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave.</li> <li>All of the above describe a stack.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 2.	
28. What is wrong with the following declaration of the ArrayList of strings arr? ArrayList(String) arr = new ArrayList(String)<>;	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>Only the 1st occurrence of "(String)" should be replaced with ""</li> <li>The angled brackets "&lt;&gt;" need to be replaced with parenthesis "()" and parenthesis "()"need to be replaced by "&lt;&gt;" (*)</li> <li>Both occurrences of "(String)" should be replaced with "" (*)</li> <li>Nothing, this declaration is correct.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
29. Why can a LinkList be considered a stack and a queue?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>Because you can add elements to the end of it. (*)</li> <li>Because you can add element to the beginning of it. (*)</li> <li>Because you can remove elements from the end of it. (*)</li> <li>Because you can remove elements from the beginning of it. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
30. Which of the following correctly adds "Cabbage" to the ArrayList vegetables?	Mark for Review (1) Points
<pre>vegetables += "Cabbage"; vegetables.get("Cabbage"); vegetables[0] = "Cabbage";</pre>	

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vegetables.add("Cabbage"); (\*)

X Incorrect. Refer to Section 3 Lesson 2.

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
31. What is the function of the asterisk (*) in regular expressions?	Mark for Review (1) Points
<ul> <li>The asterisk has no function in regular expressions.</li> <li>Indicates that the preceding character may occur 1 or more times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or 1 times in a proper match.</li> <li>Indicates that the preceding character may occur 0 or more times in a proper match. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
32. What is the correct explanation of when this code will return true? return str.matches(".* [0-9]{6}.*");	☐ Mark for Review (1) Points
<ul> <li>Any time that str contains two dots.</li> <li>Any time that str contains a sequence of 6 digits. (*)</li> <li>Any time that str has between zero and nine characters followed by a 6.</li> <li>Any time str contains a 6.</li> <li>Always.</li> </ul>	
✓ Correct	
33. Which of the following does not correctly match the regular expression symbol to its proper function?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>"{x}" means there must be x occurrences of the preceding character in the string to be a match.</li> <li>"?" means there may be zero or one occurrences of the preceding character in the string to be a match.</li> <li>"+" means there may be zero or more occurrences of the preceding character in the string to be a match. (*)</li> <li>"{x,}" means there may be x or more occurrences of the preceding character in the string to be a match.</li> <li>"{x,y}" means there may be between x and y occurrences of the preceding character in the string to be a match.</li> <li>Correct</li> </ul>	,
34. Regular Expressions are a part of the java.util.regex package, thus java.util.regex must be imported for any programs containing regular expressions.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
35. Which of the following correctly defines a repetition operator?	Mark for Review (1) Points
<ul> <li>a symbol that represents any character in regular expressions.</li> <li>a method that returns the number of occurrences of the specified character.</li> <li>any symbol in regular expressions that indicates the number of occurrences a specified character appears in a matching string. (*)</li> <li>None of the above.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 3.	
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Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
•	
Section 3 (Answer all questions in this section)	
36. Consider that you are writing a program for analyzing feedback on the video game you have developed. You have completed everything except the segment of code that checks that the user's input, String userI, is a valid rating. Note that a valid rating is a single digit between 1 and 5 inclusive. Which of the following segments of code returns true if the user's input is a valid rating?	Mark for Review (1) Points
(Choose all correct answers)	
<pre>return userI.matches("[1-5]"); (*) return userI.matches("{1-5}"); return userI.matches("[1-5].*"); return userI.matches("[1-5]{1}"); (*)</pre>	
Incorrect. Refer to Section 3 Lesson 3.	
<b>37</b> . Which of the following methods for the String class take a regular expression as a parameter and returns true if the string matches the expression?	Mark for Review (1) Points
<ul><li>equals(String regex)</li><li>equalsIgnoreCase(String regex)</li><li>compareTo(String regex)</li><li>matches(String regex) (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
<b>38.</b> Classes can be made immutable by placing a final key word before all method implementations. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
39. A method with default access level can be subclassed by?	Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
40. The instanceof operator works with class instances and primitive data types. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
41. Virtual method invocation is:	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>Not part of polymorphism.</li> <li>When the method of a superclass is used on a superclass reference.</li> <li>When the method of a subclass is used on a superclass reference. (*)</li> <li>When the method of a subclass is used on a subclass reference.</li> </ul>	
Correct	
<b>42.</b> Virtual method invocation occurs when you call a method from a superclass. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
43. Interfaces define what?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>some methods with implementations</li> <li>all methods with implementations</li> <li>all method definitions without any implementations (*)</li> <li>variables and methods</li> <li>constants and all methods with implementations</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
44. A method with public access level can be subclassed by?	☐ Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
Incorrect. Refer to Section 3 Lesson 1.	
<b>45</b> . Upward casting an object instance means you can't access subclass specific methods. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
<ol> <li>Immutable classes can be subclassed.</li> <li>True or false?</li> </ol>	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
2. Calling a subclass method by referring to a superclass works because you have access to all specialized methods through virtual method invocation. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
3. The instanceof operator works inside an if statement.  True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
4. A upward cast means all instance variables of the subclass are permanently lost to the instance. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
5. Upward casting an object instance means you can't access subclass specific methods. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
6. Virtual method invocation occurs when you call a superclass method for a subclass with an overriding method of the same name. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
7. Virtual method invocation requires that the superclass method is defined as which of the following.	Mark for Review (1) Points
<ul> <li>A public static method.</li> <li>A private final method.</li> <li>A public method. (*)</li> <li>A public final method.</li> <li>A default final method.</li> </ul>	
Correct	
8. Immutable classes do allow instance variables to be changed by overriding methods. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 1.	
9. Classes can be made immutable by placing a final key word before all method implementations. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
10. The instanceof operator only works with class instances. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.  Section 3  (Answer all questions in this section)	
11. A method with public access level can be subclassed by?	Mark for Review (1) Points
<ul> <li>Only a subclass in the same package</li> <li>A subclass in any package</li> <li>A static nested class</li> <li>An instance nested class</li> <li>None of the above. We cannot subclass a method in Java. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
12. A downward cast of a subclass lets you access a subclass specialized method call. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
13. Virtual method invocation occurs when you call a method from a superclass. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True</li><li>False (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 1.	
14. Multiple exceptions can be caught in one catch statement. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
15. When should you not use assertions?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
(Choose all correct answers)	
<ul> <li>□ When you want your program to execute efficiently</li> <li>☑ When you want to check the values of parameters. (*)</li> <li>□ When you call methods that may cause side effects in your assertion check. (*)</li> <li>☑ When you believe you have no bugs in your code.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
16. What is an exception?	Mark for Review (1) Points
<ul> <li>A consistent way of handling various errors. (*)</li> <li>An error that occurs against the flow of your program.</li> <li>When a file fails to open.</li> <li>If your program exits before you expect it to.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
17. Assertions are boolean statements to test and debug your programs. True or false?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul><li>True (*)</li><li>False</li></ul>	
Correct	
18. In what order do multiple catch statements execute?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>The order they are declared in (most specific first) (*)</li> <li>They all execute at the same time</li> <li>They order they are declared in (most general first)</li> <li>None of them execute since you can't have multiple catch statements.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
19. When is the proper time to use exceptions?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>When you want to print statements to the screen.</li> <li>When you want to efficiently and reliably debug your program. (*)</li> <li>If you purposefully put errors in your code you wish to handle.</li> <li>Every time a new method is called.</li> </ul>	
✓ Correct	
20. What symbol is used to separate multiple exceptions in one catch statement?	<ul><li>Mark for Review</li><li>(1) Points</li></ul>
<ul> <li>&amp;&amp;</li> <li>(==) (equals equals)</li> <li>None, multiple exceptions can't be handled in one catch statement.</li> <li>A single bar:   (*)</li> </ul>	
Correct	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
21. When do you use try-catch statements?	Mark for Review (1) Points
<ul> <li>When you want to exit your code before an exception is caught.</li> <li>If you want to switch different values for a certain variable.</li> <li>When you want to handle an exception. (*)</li> <li>Every time you would like to assign a new value to a variable that is being asserted.</li> </ul>	
Incorrect. Refer to Section 3 Lesson 4.	
22. Methods can not throw exceptions.  True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
✓ Correct	
23. The java.nio.file package has improved exception handling.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
24. The System.in is what type of stream?	☐ Mark for Review (1) Points
<ul> <li>A BufferedWriter stream</li> <li>A PrintStream</li> <li>An InputStream (*)</li> <li>A BufferedReader stream</li> <li>A Reader stream</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
25. The java.io package has problems with missing operations, like copy, move, and such. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
26. Encoding an object into a stream is serialization.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
27. The BufferedInputStream is a direct subclass of what other class?	Mark for Review (1) Points
<ul> <li>InputStream</li> <li>FilterInputStream (*)</li> <li>InputStream</li> <li>FileInputStream</li> <li>PipedInputStream</li> </ul>	
✓ Correct	
28. The System.err writes standard output to the console.  True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
29. Which of the following is an absolute Windows path?	Mark for Review (1) Points
<ul><li>/home/user/username</li><li>/</li></ul>	
<ul><li>\Users\UserName\data</li><li>C:\Users\UserName\data (*)</li><li>data</li></ul>	
X Incorrect. Refer to Section 3 Lesson 5.	
30. The BufferedOutputStream is a direct subclass of what other class?	Mark for Review (1) Points
<ul> <li>FilterOutputStream (*)</li> <li>OutputStream</li> <li>PrintStream</li> <li>DigestOutputStream</li> <li>ObjectOutputStream</li> </ul> Correct	
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
31. Split is a method for Strings that parses a string by a specified character, or, if unspecified, by spaces, and returns the parsed elements in an array of Strings. True or false?	Mark for Review (1) Points
<ul><li>True</li><li>False (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 3.	
<b>32.</b> Which of the following methods for the String class take a regular expression as a parameter and returns true if the string matches the expression?	Mark for Review (1) Points
<ul><li>equals(String regex)</li><li>equalsIgnoreCase(String regex)</li><li>compareTo(String regex)</li><li>matches(String regex) (*)</li></ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
33. Which of the following methods are specific to StringBuilders?	Mark for Review (1) Points
<ul> <li>append</li> <li>delete</li> <li>inssert</li> <li>replace</li> <li>All of the above. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
34. Which of the following correctly initializes a StringBuilder?	Mark for Review (1) Points
<ul> <li>StringBuilder sb = "This is my String Builder";</li> <li>StringBuilder sb = StringBuilder(500);</li> <li>StringBuilder sb = new StringBuilder(); (*)</li> <li>None of the above.</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 3.	
35. Consider that you are writing a program for analyzing feedback on the video game you have developed. You have completed everything except the segment of code that checks that the user's input, String userI, is a valid rating. Note that a valid rating is a single digit between 1 and 5 inclusive. Which of the following segments of code returns true if the user's input is a valid rating?	☐ Mark for Review (1) Points
(Choose all correct answers)	
return userI.matches("[1-5]"); (*)	
return userI.matches("[1-5].*");	
☑ return userI.matches("[1-5]{1}"); (*)	
Incorrect. Refer to Section 3 Lesson 3.	
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Test: Java Programming Final Exam		
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.		
Section 3 (Answer all questions in this section)		
36. Which of the following does not correctly match the regular expression symbol to its proper function?		Mark for Review (1) Points
"{x}" means there must be x occurrences of the preceding character in the string to be a match.		
"?" means there may be zero or one occurrences of the preceding character in the string to be a match.		
"+" means there may be zero or more occurrences of the preceding character in the string to be a match. (*)		
<ul><li>"{x,}" means there may be x or more occurrences of the preceeding character in the string to be a match.</li></ul>		
"{x,y}" means there may be between x and y occurrences of the preceding character in the string to be a match.		
✓ Correct		
37. Which of the following correctly defines Matcher?		Mark for Review (1) Points
a regular expression symbol that represents any character.		
<ul> <li>a method of dividing a string into a set of sub-strings.</li> <li>a class in the java.util.regex package that stores the matches between a pattern and a string.</li> </ul>		
(*)		
a class in the java.util.regex package that stores the format of a regular expression.		
✓ Correct		
38. Which of the following methods adds a Key-Value map to a HashMap?		Mark for Review (1) Points
<pre>put(Key, Value) (*)</pre>		
add(Key, Value)		
get(Key, Value) remove(Key, Value)		
✓ Correct		
39. Which of the following correctly adds "Cabbage" to the ArrayList vegetables?	m	Manla fan Davida
57. Which of the following correctly adds cabbage to the Arrayast vegetables.		Mark for Review (1) Points
<pre>vegetables += "Cabbage"; vegetables.get("Cabbage"); vegetables[0] = "Cabbage"; vegetables.add("Cabbage"); (*)</pre>		
X Incorrect. Refer to Section 3 Lesson 2.		
40. A List is an ordered Collection that may contain duplicate elements.		Mark for Review
True or false?		(1) Points
<ul><li>True (*)</li><li>False</li></ul>		
✓ Correct		
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Test: Java Programming Final Exam	
Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3 (Answer all questions in this section)	
41. The local petting zoo is writing a program to be able to collect be able to group animals according to species to better keep track of what animals they have. Which of the following correctly defines a collection that may create these types of groupings for each species at the zoo?	Mark for Review (1) Points
<ul> <li>public class     animalCollection {} (*)</li> <li>public class     animalCollection(AnimalType T) {}</li> <li>public class     animalCollection {}</li> <li>public class     animalCollection(animalType) {}</li> <li>None of the above.</li> </ul>	
✓ Correct	
<b>42.</b> A HashSet is a set that is similar to an ArrayList. A HashSet does not have any specific ordering. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
43. Why can a LinkList be considered a stack and a queue?	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>□ Because you can add elements to the end of it. (*)</li> <li>☑ Because you can add element to the beginning of it. (*)</li> <li>□ Because you can remove elements from the end of it. (*)</li> <li>☑ Because you can remove elements from the beginning of it. (*)</li> </ul>	
X Incorrect. Refer to Section 3 Lesson 2.	
44. These are a list of elements that have a first in last out ordering.	Mark for Review (1) Points
<ul><li>Arrays</li><li>Stacks (*)</li><li>HashMaps</li><li>Enums</li></ul>	
✓ Correct	
45. Which scenario best describes a stack?	Mark for Review (1) Points
<ul> <li>A pile of pancakes with which you add some to the top and remove them one by one from the top to the bottom. (*)</li> <li>A row of books that you can take out of only the middle of the books first and work your way outward toward either edge.</li> <li>A line at the grocery store where the first person in the line is the first person to leave.</li> <li>All of the above describe a stack.</li> <li>Incorrect. Refer to Section 3 Lesson 2.</li> </ul>	
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Test: Java Programming Final Exam  Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.	
Section 3	
(Answer all questions in this section)	
46. What are maps that link a Key to a Value?	Mark for Review (1) Points
<ul><li>Arrays</li><li>ArrayLists</li><li>HashSets</li><li>HashMaps (*)</li></ul>	
Incorrect. Refer to Section 3 Lesson 2.	
47. Nodes are components of LinkedLists that are like maps because they identify where the next and previous nodes are. True or false?	Mark for Review (1) Points
<ul><li>True (*)</li><li>False</li></ul>	
✓ Correct	
48. What is wrong with the following declaration of the ArrayList of strings arr?  ArrayList(String) arr = new ArrayList(String)<>;	Mark for Review (1) Points
(Choose all correct answers)	
<ul> <li>Only the 1st occurrence of "(String)" should be replaced with ""</li> <li>The angled brackets "&lt;&gt;" need to be replaced with parenthesis "()" and parenthesis "()"need to be replaced by "&lt;&gt;" (*)</li> <li>Both occurences of "(String)" should be replaced with "" (*)</li> </ul>	
Nothing, this declaration is correct.	
Incorrect. Refer to Section 3 Lesson 2.	
49. Which of the following correctly defines a queue?	Mark for Review (1) Points
<ul> <li>a list of elements with a first in last out order.</li> <li>a list of elements with a first in first out order. (*)</li> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>it is a keyword in Java that restrict the use of the code to local users only.</li> </ul>	
✓ Correct	
50. What is a set?	Mark for Review (1) Points
<ul> <li>something that enables you to create a generic class without specifying a type between angle brackets &lt;&gt;.</li> <li>a collection of elements that does not contain duplicates. (*)</li> <li>a keyword in Java that initializes an ArrayList.</li> <li>a collection of elements that contains duplicates.</li> </ul> Correct	
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