False

Unless mentioned otherwise, all coding questions reference the Java 8 language.

1. In html or jsp files, the  $\leq$ input ...  $\geq$  element can have several attributes.

	Which attribute should you use for JavaScript's getElementById()
	Which attribute should you use for Java's request.getParameter()?
2.	Name three types of Java comments and give syntax examples.  a. Single-line (omment Ex. System, alt., pinthn("wetcome here");  b. Find-of-line (omment Ex. System, out., pinthn();//pinta blank line  c. Wash Comment Ex. ** ** Author: Styler "James #
3.	In Java, statements with what type of modifier(s) should have Javadoc comments coded?
4.	Which of the following is <i>not</i> true regarding legal java identifiers?
	a. A java identifier can start with an underscore (_)
	b. A java identifier can start with a currency character (\$)
	c. A java identifier can start with a number
	d. A java identifier can start with an uppercase letter
5.	An object can be a person, place, thing, or elent.
6.	In Java, can you have a final abstract class? Why or why not?  No, because for final classes we can't create child
7.	Class which are marked protected can be accessed by classes in different packages.
	(a. )True
	b. False
8.	Methods that do not have any access modifier can be accessed by classes in other packages.
	a. True
	(b.) False
9.	According to BCBSSC standards, what javadoc annotation(s) should be coded before a method that returns a
	value? Wordon + Oreturn
10.	According to BCBSSC standards, what annotation should be coded before a toString() method in a bean?
11.	Making a member means that it is only visible to methods in the same class.
	Methods that are marked as "private" can be accessed by the subclasses of that class.
	a True

13. Making a member static means that there is only one instance of that particular member variable.
14. Making a member means that it can only be assigned once, making the compiler more
optimized, since it knows the value of the variable will never change once assigned.
15. Giving the following line of code, where the parameter will never be changed within the method, add just one
word that will make it more efficient:
public String myMethod(BigDecimal cost) { }
16. Given the following code:
<pre>private static final Person myPerson = new Person("John", "Smith", 1234, "May 3");</pre>
where Person is a bean with the four attributes (firstName, lastName, bankBalance, and birthDate), and getters
and setters, is it possible to change bankBalance for the instance named myPerson? Explain your answer.
a. Yes, because only the doyect's reference country be cho
b. No,
17. Referencing the code in the previous question, create a JUnit test that will test the bankBalance in the Person
class. Start your code with the appropriate JUnit annotation.
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allie wid test thurst Religiones
Lypurg one in 2 per in Octability
person (locality)
public Upid test-Bourh Bulonce &  Person person = new Person();  person bound Bounce (SOD,00);  assert Equals (C'Get the blance', person, get Bank Blance(), 0.001);
a sect Good to Colonia of the
3
18. Show the code for two constructors that illustrate "cascading" (aka "telescoping"). The first constructor receives
two Strings and validates both. The second constructor only receives the first string, and validates it. Assume
there there mathed a wint for validating those Stringer, validated and validated. Your class name is MyRean
public Unfano (Stone Validate), Stone Validate 2) &
This, Set Validate (Cvalidate 1);
this setValidate(validate2).
5
public Myseon (string Validate);  This set Validate (validate);  public Myseon (string Validate);  This (validate);
How (Mulidetted)
5 MIS CVANDOS OF /

24. Class 'Baseball' extends class 'Ball'. The throwBall() method is coded in both, with the one in the Baseball
overriding the one in the 'Ball' class. Which method gets invoked in the following code?
<pre>Ball sport = new Baseball();</pre>
sport.throwBall();
a. throwBall() in Ball
b. compiler error
c. runtime error
d. throwBall() in Baseball
25. In Java 7 and earlier, assume that class Sport implements the interface SportInterface, and that class BaseBall
extends Sport.
(a.) 'Sport' must contain concrete methods for all methods in SportInterface
b. 'Baseball' must contain concrete methods for all methods in SportInterface
c. Baseball must contain concrete methods for the methods that have not been coded in as concrete (not
abstract) in Sport.
26. A final method can be overridden.
a. True
(b.) False
27. Code a ternary operator in Java to make the word "ducks" singular or plural, based on the value in the int
countOfDucks. This should work for zero, one, two, minus one, etc.
28. You can use the increment and decrement operators with the byte type. ((i) one codic ')+ "in the
28. You can use the increment and decrement operators with the byte type. ((is one codic))+ "in the
(a. )True
b. False
29. Which of the following is true regarding constructors in Java?
a. They are called to initialize an object when the object is instantiated
b. They must have the same name as the name of the class they're in
c. They have no return type, including 'void'
d. All of the above
30. A constructor is used to create a/an Object and initialize the objects Steete.

31. In Java, will the following statement compare as true or false?

```
String stringA = new String("Hello World! ");
String stringB = new String("Hello World! ");
If (stringA == stringB) . . .
```

- a. True
- b. False
- 32. In Java, will the following statement usually compare as true or false?

```
String stringA = "Hello World! ";
String stringB = "Hello World! ";
If (stringA == stringB) . . .
```

- a. True
- (b.) False
- 33. What are the values of x and y after executing the following statements?

```
int myIntA;
int myIntB;
myIntA = 3;
myIntB = myIntA++;
a. myIntA = 3, myIntB = 3
b. myIntA = 4, myIntB = 4
c. myIntA = 4, myIntB = 3
d. myIntA = 3, myIntB = 4
```

- 34. Which of the following statements is true about exceptions?
  - a. All exceptions must be caught or handled in your Java program
  - b. Only unchecked exceptions must be caught or handled in your Java program
  - c. Only checked exceptions must be caught or handled in your Java program
  - $(\overline{d})$  All of the above
  - e. None of the above
- 35. Which of the following is illegal when defining a class in Java?
  - a. class ClassA implements ClassB, ClassC...
  - b. class ClassA extends ClassB...
  - c. class ClassA extends ClassB, ClassC...
    - d. class ClassA extends ClassB, implements ClassC

ELTP 2019 Non Host Mid-Term 5

36. When is it permitted to code the following?
ClassA obj = new ClassB();
a. When ClassA is a subclass of ClassB
b. When ClassB is a subclass of ClassA
c. When ClassA and ClassB are both subclasses of the same superclass
d. The statement is never legal
37. If a class is declared final, then:
a. You cannot instantiate it
b. You cannot extend it
c. You cannot implement it
d. "final" is invalid for a class
38. instanceof is a(n):
(a.) Operator
b. Method of an object
c. Variable
39. Is it legal to access a static method using an instance of the class?
(a.) Yes. It is the best way to access such a method.
b. Yes, but it is strongly discouraged.
c. No
40. What is the primary difference between a hash map and a tree map?
HashMap is not sorted and a Tree Map is sorted.
41. In an ArrayList, if you don't specify the initial capacity, what will the default capacity be set to?
42. Can a subclass access the private member variables of its own superclass?
a. Yes
(b.) No
43. How do you code a comment in HTML?
a. <- comment >
b. < comment>
(c.) comment
d. <comment></comment>
44. What is the recommended way to code a comment in a JSP?

45. The HTML <form> element is a block level element, so browsers create a line break before and after the form.</form>
(a.) True
b. False
46. List three different uses of the <meta/> tag in an HTML page.
a. Define, hegewords for teach renames
b. refine a description of your web page
a Provides metadoiter about the HTML determent
47. Given the HTML code below, fill in the missing CSS so that the text 'My Link' is assigned the color red.
Assume there are other unordered lists in the webpage, and you want just this link in this list to be red.
css:
elistalia 1
color: red;
}
html:
<ul><li><ul id="list2"></ul></li></ul>
<li><a href=" ">My Link</a></li>
48. If you want to preserve the spacing in your HTML code, what tag could you use?
49. If you want three spaces between two values in your JSP, what entity can you code?
50. Referencing the following CSS code, fill in the blanks with either 5px, 25px, or 40px.
border-width: 25px 5px 40px;
a. Left-border
b. Bottom-border 10 px
c. Top-border
d. Right-border
51. One <u>Cyn</u> is equal to the current font size (specify the CSS measurement value).
52. In JavaScript, what is the value of 'myVariable' in the following code?
<pre>var myVariable = !isNaN("12.345");</pre>
53. Given a Date object named dueDate, which statement(s) set(s) the month to February?
(a.) dueDate.setMonth(1);
b. dueDate.setMonth(2);
c. dueDate.setMonth("Feb");
d. dueDate.setMonth("February");
e. dueDate.setMonth(Calendar.FEBRUARY);

ELTP 2019 Non Host Mid-Term

7

54. What are the three primitive data types in JavaScript (code the correct upper/lower case)?	
a. Strock	
h. Totale	
c. Writer	
55. Show an example to create an insurancePolicy using JavaScript in a JSP file.	
Var insurance [];	
Function Towerre Policy (injurance Type) &	
this inversely per tinxurance Type;	
3	
firstion create Tostence () {	
you injurance - new Injurence Policy (document,	
get Flement By Id ("type"), Value);	
56. Show the code to place the cursor in an input text field with id-price.	
Cinput type= "text" name= "inputprice" id= price" outofi	) CLLS.
57. According to the BCBSSC standards, which is the valid way to access a form in your JavaScript?	
a. document.forms[0]	
b. document.formname	
58. Given the HTML code below, write the JavaScript function so that if the checkbox isn't checked, an alert will prompt the user to make a selection. If the checkbox is checked, an alert will let the user know that their order will be processed. Follow BCBSSC standards.	
<form name="orderForm"></form>	
<pre><input name="processOrder" type="checkbox"/>Process my order <input onclick="goProcess();" type="button" value="Click to continue"/> </pre>	
function golfocess() } if (blockment, get Element By Id (Groenform). Checked); alent ("Your order will be processed);	>
3e/se & alent ("You need to make a selection!") 3- }	
NO MARK CHAILL VAN ING TAVANCERN VALIDATION AND WHEN NORTH VOILING NEIVEL VALIDATIONE:	
You should use Javascript validation to provide a	Ma.
Laller 11 Pro experience Where (15 //ll use sciver	,
Validation to make sure lateral and in the sure to	Z
Validated by the Client.  8	

60. Assume you are in the doPost method of a servlet. Write the code to forward a URL request to a JSP page, named
mainmenu.jsp that is in a folder named jsp, where both are in the context named web5.
Request Dispatchen rd; rd=request, gethequest Dipatcher ("/ssp/mainrenu.jsp"); rd.forward(request, response);
61. One of the advantages of the post method over the get method is that it is easier to bookmark.
a. True
(b.) False
62. What is wrong with the following JSP footer code?
<pre>&lt;% page import="java.util.*" %&gt;</pre>
<%
<pre>Calendar currentDate = new GregorianCalendar();</pre>
<pre>int currentYear = currentDate.get(Calendar.YEAR);</pre>
In the first line is < jsp include page = " /html/myFoutw.htm 63. Which of the following JSP expressions is valid? F(ush = "foue"/)
(a.) <%= request.getParameter("occupation"); %>
b. <%= request.getParameter("occupation") %>
(c) <%= String occupation = request.getParameter("occupation"); %>
d. <%= String occupation = request.getParameter("occupation") %>
e. none of the above
64. Which of the following JSP expression(s) is equivalent to
<pre><jsp: getproperty="" name="book" property="title"></jsp:></pre>
(a.)<%= book.getTitle() %>
b. <%= bean.getBook("title") %>
c. <%= bean.getTitle("book") %>
d. <%= book.getBook( ) %>
65. Write the EL code for accessing the 'time' property in a session attribute named 'clock'.
& Eclack, time, 3
66. Write the EL code for accessing the 'time' property in an attribute named 'clock' of the request object (explicitly
specify the scope).
Screquest-score, clock, time &

net@asset.com

67. T	To get t	the effect of a Java nested if/else-if/else-if or switch, code this JSTL tag in your JSP:
68. I	f the fo	ollowing code is used to parse an attribute named 'emailAddress' that contains a value of
•	jjones(	@net@asset.com', what is displayed in the browser?
		<pre><c:fortokens ;<="" delims="0" items="\${emailAddress}" pre="" var="part"></c:fortokens></pre>
		\${part}
	a.	jjones
		net
		asset
	_	com
	b.	jjones
		net
		asset.com
	c.	jjones
		net@asset
		com
	d.	jjones

69. Another name for web.xml is Reployment Descriptor

10

70. Identify five items in the code below that break Java coding convention standards at BCBSSC.

```
package com.bcbssc.eltp.dbconn;
         public class TestStuff {
                public static void main (String args[])
                      int count1, count2;
                      count1 = 10;
                      count2 = 5;
                      if(count1 != count2)
                            System.out.println("Count's don't equal!");
                }
71. Given these values for a Java array {3,8,12,5,9,21,6,10}, write a loop that will display just the odd numbers.
                              ¿3,8,12,5,9,21,6,105;
        for Cintizo; i < my Array, kryth; i+t) & if (a [i ] % 2! = 0) }
                  System. Out. printin(a[i]);
72. What is the Singleton design pattern?
                                pattern restricts the instantiation of
  The Simulation design
                                       it only one instance of the class
73. Give an advantage to using Big Decimal over float or double Constructor, private Static Venicoble One Mountage of Big Decimal and public static method
                           autikus that Big Decinal is more accurate
74. Give a disadvantage to using BigDecimal over float or double (other than that it is more difficult to code).
   Advaduantage of cesing Biabecimas over floor
```

ELTP 2019 Non Host Mid-Term 11

75. On which lines does autoboxing/unboxing occur in the following code?  Integer count = 5;  count++;  if (count.equals(6)) {  System.out.println(count + " is equal to 6");  }  INCS / + 2
76. What is an advantage to using a factory? Factories provides approach to code for to the interferce rother than implementation.
Factorics makes are code more vobust, less capled and casy to extend.
78. In Java, name 4 ways to loop thru lines of code in Java?  Therative for, for each, while, and do/white
79. In Java, name 3 ways to code conditional processing, other than the conditions on loops?  If Switch Case, and termoury if
NOTE: The following may have multiple answers
80. In Java, is <b>Employee</b> a variable, constructor, class, interface, or method?
81. In Java, is <b>employee</b> a variable, constructor, class, interface, or method?
82. In Java, is <b>employee()</b> a variable, constructor, class, interface, or method?
83. In Java, is Employee() a variable, constructor, class, interface, or method? Constructor

84. In Java, Contrast a primitive and an object. Give at least three differences.
a. Primitive connot be null but objects can.  b. Object is a reference and a primative is a detual value
b. Object 13 a construction of the converts a descale value
c. Primitives are independent data types whereas on object
85. In Java, what is a null?
In Java null is the absonce of a reference.
86. What type of variables can have null values in Java Strings Instance. Wandbles
87. What is the difference between a static variable and a static final variable?  A Static wordble is a whiche that only has one copy of the words a static final variable is a wordble that we conclude it as wordble that  88. What is a static method? Which (on 4 be reinitialized.
. Is a viethor, that belonds to a class, the method
89. What is the difference between a static method and a static final method?
exists only once whereas a steetic final method is
90. What restriction does "final" place on a method? be overriden  The method cannot be overriden.
91. What is a method signature?  Method Signature is comprised of the method rome,  the method's parameters and the order of types, return  92. What is method overloading?  Getter Signature and neither are throws.
92. What is method overloading? + one the signature and neither are throws.
Method we loading is the same method name, but disferent commeter list, does not motely and throw and return type can be different.
The second control of

ELTP 2019 Non Host Mid-Term 13

93. What is method overriding?  Method overriding method signature methods, and the return type and thrown are compatible
ONO THE PERCHATTY POUR OF STREET
94. A primitive array holds referred while an array of objects holds best references
95. What is an advantage to using an interface? Provides a "type" for unables and arrays.
96. What is another advantage to using an interface?
Provides Shored Constants.
97. What is a third advantage to using an interface?
Supports polymorphism without a superclass.
98. Name three places where css can be coded for an html or JSP file
Exferral Stylesheet
Inline, Style to ATOM teap)
Embedded CSS between Style / Style + tags in the heavy in a HTW a JSP File.
Extend Jacascript
Embedded Javascinpt Setween (Script)
in the chead > + Cbody>,
100. What is the DOM?
100. What is the DOM?  Voccument Object Model is a cross-platform and langual independent convention for representing and interacting independent convention for representing and interacting with HTML, KHTML and KMC objects.

102. Describe is the MVC design pattern?  MUCHATHEM Stands for Market Vecu - Controller.  Market represents on object or JAVA 1050 corrying data cane have represents on object or JAVA 1050 corrying data cane have represents the virtualization of the data the project contains.  103. JSP Took like HTML. What are two huge differences between a JSP and HTML who are two huge differences between a JSP and HTML who are two huge differences between a JSP and HTML who are two hugest and the more of the result of the content of the following host terms:  a. Dataset - Tree Mary  b. JCL - App Notiver Educia Class.  c. Compiler was expected.  c. Compiler was expected.  d. Endeavor - Grithub  e. Abend - Exception  f. PERFORM - While , for , do, or method call  105. What is your favorite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that J learned So for in the ELTP-Java class?  My founite thing that J learned So for in the ELTP-Java class?  My founite thing that J learned So for in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that J learned So for in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?  My founite thing that you have learned and/or accomplished so far in the ELTP-Java class?	101. Name three events that you can use to trigger a JavaScript function?
My fathern sords for Madel Vicas - Controller.  Model represent on object or JAVA 1050 carrying data cance your large are the violation of the data the model contains.  103. JSPS took like HTML. What are two huge differences between a JSP and HTML what are two huge differences between a JSP and HTML what are two huge differences between a JSP and HTML what is deared from the content of the con	on Facus O, on Click (), + on Load ()
My fathern sords for Madel Vicas - Controller.  Model represent on object or JAVA 1050 carrying data cance your large are the violation of the data the model contains.  103. JSPS took like HTML. What are two huge differences between a JSP and HTML what are two huge differences between a JSP and HTML what are two huge differences between a JSP and HTML what is deared from the content of the con	
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use case switch statements and how that it	My tellante thing that I tearned so for
use case switch statements and how that it	in the EUTP- Java class is know to correctly
The I was told in school.	use case switch statements and how that it
like I was told in school.	1) a valid pave pratice and not tabao
	like I was told in school.