Name:	Class:	Date:	ID: A

Java Spring 2018 Exam

Multiple	Choice
----------	--------

Identify the choice that best completes the statement or answers the question.

1. Consider the array

The value of nums[4]=

a. 16b. 8

c. 20

d. 4

Assume the following declaration:

2. The elements of the Grade array may store grades of what type?

a. boolean

d. double

b. String

e. Any legal type.

c. int

3. Which of the following statements would create an error?

a. List[0]=9;

d. List[9]=5;

b. Grade[2]="Hello";

e. List[1]=List[2];

c. Grade[4] = "123";

4. How many grades can the Grade array store?

a. 3

d.

b. 4

e. It depends upon how many grades are assigned when the program is run.

c. 5

5. Which of the following statements assigns a "B" to the 2nd element in the Grade array?

a. Grade[2]='B'

d. Grade[1] ='B'

b. Grade[1]="B"

e. It is not possible to assign a value to the 2 element in the array.

c. Grade[2]="B"

6. The List.length is

a.

c. 9

b. 8

d. 10

7. An element of an array is:

a. the name given to the entire array.

c. the type of the array.

b. a single entry in the array.

d. only the first value in the array.

Name:	

b.

Jones

ID: A

 8.	An	individual element in the array is addressed by s	pecif	ying:
	a.	the name of the array and the index of the	c.	the index of the element within the array
	b.	element. the name of the array.	d.	followed by the name of the array. the index of the element in the array.
	0.	the name of the array.	u.	the mack of the element in the array.
 9.		G[7] represents		
	a. b.	the seventh element from the array called G. seven elements from the array called G.	c. d.	the eight element from the array called G. eight elements from the array called G.
	υ.	seven elements from the array caned G.	u.	eight elements from the array caned G.
 10.		subscript in an array can be:		
	a. b.	a number. a variable name.	c. d.	an arithmetic expression. all of the above.
	υ.	a variable name.	u.	an of the above.
 11.	The	following coding could be used to load data int		
		for (int S1 = 0;S1<=4 F[S1]=S1;	;SI	++)
	a.	one element array called F.	c.	five element array called S1.
	b.	one element array called S1.	d.	five element array called F.
12.	A li	st of related objects called an:		
	a.	array	c.	subscripted variable
	b.	variable	d.	both A and C
13.	The	Bubble Sort:		
	a.	involves making very few comparisons.	c.	can be used to alphabetize data.
	b.	is the most efficient sort.	d.	is used to randomize data
 14.	Hov	w many elements can be in a array defined by		
		double List[]=new double[1	.0];	
	a.	0	C.	9
	b.	11	d.	10
 15.	In tl	the statement $A[3] = 5$; the index is:		
	a.	A	c.	A(3)
	b.	3	d.	5
		Let the diagram of an a	rrav	named <i>lastarr</i> of type String be
		Smith		es Brown Lock
				<u> </u>
 16.		starr.length is		4
	a. b.	2	c. d.	
	υ.	3	u.	
 17.	la	starr[2] is		_
	a.	Smith	c.	Brown

d. Lock

Name	e:				ID: A
	18.	Wh	nat name is the 2^{nd} element in the array?		
		a.	Smith	c.	Brown
		b.	Jones	d.	Lock
	19.	Wh	nat name is stored at index 2 in the array?		
		a.	Smith	c.	Brown
		b.	Jones	d.	Lock
	20.	The	e index of the last element of the array is?		
		a.	3	c.	5
		b.	4	d.	0
	21.		ow how to use the <i>Scanner</i> class to creat from the file $C:\MyData\Data1.txt$.	ate a	Scanner scr object that could be used to read lines of
		a.	Scanner scr = new Scanner(new File("C:\N	MyData\Data1.txt"));
		b.	Scanner scr = new Scanner(new File(
		c.	Scanner scr = new Scanner(new File("C://	MyData//Data1.txt"));
		d.	Scanner scr = new Scanner("C:\\MyD	ata\\]	Data1.txt");
		e.	Scanner scr = new Scanner(File("C:\\	MyD	ata\\Data1.txt"));
	22.		ow would you use an <i>scr</i> object that read <i>String s</i> ?	ds a c	lisk file to read a line of text from that file and store in
		a.	String s = scr.nextLine();	d.	String s = nextLine(scr);
		b.	String s = scr.next();	e.	None of these
		c.	String s = scr.nextLine;	٠.	Trong of these
		** **		0	
	23.	W	hat import is needed for the <i>Scanner</i> cla	ass?	
		a.	import java.io.*;	d.	import java.awt.*
		b.	import java.text.*;	e.	None of these
		c.	import java.nerdstuff.*;		
	24.		ter you open a file and you are finished th the <i>Scanner</i> object?	inpu	tting from the file, what's the last thing you should do
		a.	Delete the file with scr.delete();	d.	Renew the file with scr.renew();

e. None of these

b. Append the file with scr.append();

c. Close the file with scr.close();

Name:				ID: A		
25.		Show how to use the <i>FileWriter</i> and <i>PrintWriter</i> classes to create a <i>PrintWriter pw</i> object that could be used to write lines of text to the file $C:MyData \mid Data \mid Ltxt$.				
	a.	FileWriter fw = new FileWriter("C PrintWriter pw = new PrintWriter(•	nta\\Data1.txt");		
	b.	FileWriter fw = new FileWriter("C PrintWriter pw = new PrintWriter(•	ta\Data1.txt");		
	c.	FileWriter fw = FileWriter("C:\\My PrintWriter pw = PrintWriter(fw);	yData\\L	Pata1.txt");		
	d.	FileWriter fw = FileWriter("C:\\MY PrintWriter pw = new PrintWriter(*			
	e.	None of these				
26.	Но	w would you use the pw object from	the pre	vious problem to write String s to the Data1.txt file?		
	a. b. c.	<pre>s.println(pw); pw.print(s); pw.System.out.println(s);</pre>	d. e.	pw.println(s); None of these		
27.	W	ny is it so important to close a file that	at has be	een opened with FileWriter?		
	a. b. c. d.	It's not important. This prevents the computer from spin. This prevents the computer from runn Some of the information "written" until the file is closed. None of these	ing low			
28.	Но	w many elements are stored in doub	ble d[?]? Store the answer in an appropriate variable type.		
	a.	<pre>int i = d.length(); int i = d.length;</pre>	d.	More than one of these		

b. int i = d.length;

e. None of these

- c. int i = (double)d.length;
- 29. Which line of code will store the odd integers from 1 to 15 in an integer array called *ary*?
 - a. int ary[] = $\{1,3,5,7,9,11,13,15\}$;
- d. More than one of these
- b. int []ary = $\{1,3,5,7,9,11,13,15\}$;
- e. None of these
- c. int ary[] = int $\{1,3,5,7,9,11,13,15\}$;

Name	:			ID: A
	30.	Which of the following is a correct way	to decl	are a String array?
		a. String []s;	d.	String s;
		b. String s[];	e.	None of these
		c. Both A and B	C.	Trong of these
	31.	Which of the following is a correct way	to pass	s a double array called dd to a method called maxVert?
		a. maxVert(double []dd);	d.	maxVert(dd);
		b. maxVert(double dd[]);		Both A and B
		c. maxVert(dd[]);		
	32.	Which of the following signatures of the the <i>double</i> array called <i>vv</i> ?	metho	od maxVert is a correct way to receive as a parameter
		a. public void maxVert(double []vv)	d.	public void maxVert(vv)
		b. public void maxVert(double vv[])		Both A and B
		c. public void maxVert(vv[])		
	33.	A software program's ability to a	llows it	t to follow alternate paths of execution based on the
		evaluation of condtions.		
		a. branch	c.	loop
		b. iterate	d.	short-circuit evaluation
	34.	The Java keyword that allows programs to c	compare	e a single variable to multiple possible variables is the
		a. BREAK keywork	c.	logical OR
		b. switch statement	d.	CONTINUE keyword
	35.	The Java symbols that are used to create con	mpound	l conditions are called operators.
		a. logical	c.	C 1
		b. loop	d.	ternary
	36.	The process of executing a set of intructions	s numei	rous times is called program
		a. iteration	c.	ternary operator
		b. branching	d.	looping
	37.		op to te	rminate immediately without re-evaluating its terminating
		condition is the		
		a. BREAK keyword	c.	CONTINUE keyword
		b. logical OR	d.	logical AND
	38.	clause.	s execu	tted is when a condition is not true is called the
		a. default	c.	else
		b. loop	d.	switch
	39.		nmers t	o conditionally assign one of two values to a variable.
		a. binary	c.	ternary
		b. unary	d.	itinary

40		C	1 2 1 122 2 11 14
40	 The Java logical operator that inverts the stat a. NOT 	e oi a c.	
	b. AND		OR
	0. /H\D	u.	
41	. A Javaloop will typically execute	a pred	determined number of times.
	a. for		dowhile
	b. while	d.	logical and
42	. The Java keyword causes a progra processing the remainder of the current states		proceed directly to the next iteration of a loop without block.
	a. do	c.	
	b. break	d.	loop
43	. A Java object that responds to a user or syste	m-ger	nerated event is called a(n)
	a. event listener	c.	
	b. event source	d.	mouse event
44	. Java objects that wish to be notified when mo	ouse e	events occur must implement the
	a. mouse event	c.	timer
	b. MouseListener interface	d.	event source
45	. Java objects that wish to be notified when Ti	mer e	vents occur must implement the
	a. Timer event	c.	
	b. timer	d.	ActionListener interface
46	. An unnamed class that is defined inside of an	other	Java class is called a(n)
	a. inner class	c.	
	b. mouse event	d.	implements keyword
47	. Any Java class or system entity that causes an	n ever	nt to fire is called an
	a. event source	c.	
	b. ActionListener	d.	inner class
48	. The Java keyword indicates that interface.	t a Jav	va class has agreed to provide one or more methods for an
	a. extends	c.	implements
	b. interface	d.	dim
49	. The x, y screen coordinates contained within performed.	a	indicate the location where the action was
	a. Timer event	c.	display event
	b. mouse event	d.	event
50	. One of the purposes of the Java ActionListen that respond to events.	er int	erface is to give programmers the ability to write classes
	a. keyboard	c.	mouse
	b. Timer	d.	inner class

Name:

ID: A

51.	Some Java inner classes are called	bec	cause they are named by the Java compiler rather than by
	the programmer.		
	a. allocated	c.	anonymous
	b. absolute	d.	analog
52.	The process of designing classes and identi	fying the	eir area of responsibility is called
	a. inheritance	c.	
	b. decoupling	d.	refactoring
53.	refers to the set of data necessary	y for a cl	lass to perform its designated functions.
_	a. parameter list	c.	
	b. state	d.	method overloading
54.	a class from its clients makes tha	ıt class r	esponsible for its own behavior.
_	a. method signature	c.	
	b. switch statement		Decoupling
_ 55.	Defining two or more methods that have the		•
	a. private keyword	c.	E .
	b. method overloading	d.	encapsulation
56.	The combination of a method name and the	numbei	r and types of the method parameters is called a
_	a. method signature		continue keyword
	b. private keyword		method overloading
57	Changing the design of a Java program by b	reaking l	large or complex classes down into two or more simple
_	classes is called .	reaking i	targe of complex classes down into two of more simple
	a. decoupling	c.	factoring
	b. overloading	d.	refactoring
5 0	-	.:	dinamentariah arah adam arah masah
 _ 58.	· · ·		d interact with each other os through methods.
	a. private		package
	b. state	a.	public
_ 59.	means designing classes that have	e well-d	lefined area of responsibility, and are properly decoupled
	from their clients.		
	a. abstraction	c.	polymorphism
	b. encapsulation	d.	factoring
60.	A method signature is composed of the met	thod's na	ame and its parameter list, but not its .
_	a. state	c.	-
	b. member fields	d.	constructor
61	Overloading methods is a way of implement	nting	narameters in Iava
_ 01.	a. state	c.	abstract
	b. optional	d.	constant
	о. орионаг	u.	Constant
62.	•	•	
	a. inheritance	c.	specialization
	b. factoring	d.	code reuse

Name:

 63.		already knov	vn to work rather than duplicating that code in multiple
	places is referred to as		
	a. inheritance	c.	
	b. derived class	d.	super keyword
 64.		variables are	e not visible to any other Java class including subclasses.
	 a. protected keyword 	c.	inheritance
	b. private keyword	d.	protected keyword
 65.		rms," and ca	an be applied to overloaded methods as well as derived
	classes.		
	a. polymorphism		abstract keyword
	b. code reuse	d.	method overclocking
 66.	The is used to define class	ses that cann	ot be instantiated directly.
	 a. abstract keyword 	c.	extends keyword
	b. derived class	d.	protected keyword
67.	Derived classes in Java make use of inl	neritance and	d differentiation to achieve .
	a. abstraction	c.	
	b. polymorphism		inheritance
68.	Defining derived classes in Java requir	es the use of	the keyword.
 00.	a. abstract		public
	b. extends		private
			•
 69.			ember variables that are visible to the base class in which
	they are defined and subclasses of the l		
	a. package		protected
	b. private	d.	abstract
 70.	A constructor method in a derived clas	s can access	any overloaded version of its base class constructor by
	using the keyword.		
	a. super	c.	abstract
	b. extends	d.	package
71.	The process of identifying common att	ributes and b	behaviors in two or more classes, and then moving these
	commonalities to a base class, is called		
	a. polymorphizing	c.	extending
	b. factoring	d.	specializing
72.	The invention of the marked	the introduc	ction of third-generation computers.
 ,	a. integrated circuit	C.	hard drive
	b. compiler	d.	transistor
73.	•	stam that sta	
 13.	is the part of a computer sy a. hard drive		random-access memory
	a. hard driveb. chip	c. d.	central processing unit
	o. omp	u.	central processing unit

Name:

74.	a. software	c.	assembly languages
	b. operating systems		interfaces
75.	A is a semiconducting sub		
	a. chip	c.	integrated circuit
	b. central processing unit	d.	hard drive
<u></u> 76.	, design, and implementati	on are the first	three steps of the software development process.
	a. documentation	c.	compiling
	b. flowcharts	d.	analysis
77.	The is frequently recognize	zed as the first	computing device, and it has been used for some 5,000
	years.	0	abacus
	a. analytical engineb. ENIAC		
	b. ENIAC	u.	central processing unit
78.			t with the machine are called
	a. programming languages	c.	applications
	b. input/output devices	d.	interfaces
79.	Word processors, spreadsheets, and	•	• ———
	a. hard drives		processors
	b. applications	d.	designs
80.	allows programmers to re-	ference individ	lual computer instructions with symbolic names rather
	than binary codes.		
	a. operating systems		processors
	b. procedural languages	d.	assembly languages
81.		age code reuse	and are designed around the event-driven software model
	are called a. procedural languages		machina lamaya aga
	b. object-oriented languages		machine languages assembly languages
			, с с
82.			l in to the method by the calling object.
	a. class	c.	statement
	b. parameter	d.	pixel
83.		f a particular d	* *
	a. class	c.	library
	b. comment	d.	keyword
84.	A Java is part of a class	definition and	determines the behavior and functional capabilities of the
	class.		
	a. identifier	c.	parameter
	b. method	d.	applet
85.	The set of rules that govern the prop	er construction	of Java programs is called the language
	a. library	c.	instantiation
	b. application	d.	

Name: _____

ID: A

Name: _				ID: A
86	5. Jav	a terminology and key	words that represent com	mon objects in the real world are called .
	a.	models	c.	methods
	b.	metaphors	d.	classes
87		ra are define perties of an object.	ned as member variables	and contain values that represent the attributes and
	a.	fields	c.	compilers
	b.	methods	d.	comments
88		e process of defining a operties and capabilities		e capabilities of a base class, and then adds its own unique
	a.	association	c.	specialization
	b.	composition	d.	camel case notation
89	9. AJ	Tava code fragment that	compiles properly, but of	oes not execute as intended, is called a program
	 a.	bug	c.	method
	b.	field	d.	null
90). A J	Tava applet is a progran	n loaded and executed by	a Web browser in response to an associated
	file		•	
	a.	byte code	c.	HTML container
	b.	Java source file	d.	application
91	l. The	e of a class n	nay be described as a con	tract between it and its clients.
	a.	mutator	c.	
	b.	public interface	d.	token
92	2	refers to the ide	ea that each class should	lo one thing and do it well.
	a.	encapsulation	c.	heaping
	b.	data hiding	d.	private implementation
93	3. Ke	eping the internal state	and organization of a cla	ss unseen by its clients is known as
	a.	data hiding	c.	private implementation
	b.	encapsulation	d.	delegation
94	4. Jav		spaces, tabs, and new lin	
	a.	static members		white space
	b.	tokens	d.	case sensitive
95	5. A(1	n) is a specia	l type of method that is c	alled automatically when a class is instantiated (created).
	a.	constructor	c.	mutator
	b.	garbage collector	d.	accessor
96	5. The	e of a Java c	lass is the particular tech	nique it uses to fulfill its contract with its client.
	a.	private implementation		1
	b.	field	d.	public interface

97.	The reverse side of the "encaps	ulation" coin is called , and it means that a Java class should no	ot			
	provide services outside the rea					
	a. abstraction	c. data hiding				
	b. delegation	d. private implementation				
98.	98. Java class members that may be invoked (called) by other objects are called .					
	a. fields	c. variables				
	b. accessors	d. methods				
99.	Java provides differe	nt kinds of intristic data types.				
	a. twelve	c. eight				
	b. ten	d. three				
100.	_	jects that are provided for programmers is known as the Java				
	 a. intristic data types 	c. virtual machine				
	b. class library	d. public interface				
101.	1. The range of visibility of a variable name is called its					
	a. constant	c. cast				
	b. scope	d. modulus				
102.		any combination of constants, variables, and operators that correctly adh	iere			
	to the rules of Java syntax.					
	a. prefix	c. expression				
	b. postfix	d. operator				
103.	The + symbol in Java is used to represent the mathematical addition operation, and also the string					
	a. modulus	c. constant				
	b. operator	d. concatenation				
104	1					
104.		ay change as a program runs are called				
	a. constants	c. literals				
	b. variables	d. expressions				
105.	Assigning a value to a variable when the variable is declared is called					
	a. instantiation	c. initialization				
	b. encapsulation	d. casting				
106.	A occurs whenever the same variable appears on both sides of the Java = operator.					
	a. syntax error	c. circular reference				
	b. self-assignment	d. decrement operator				

Name: _____

Java Spring 2018 Exam Answer Section

MULTIPLE CHOICE

31. D
32. E
33. A
34. B
35. A
36. D
37. A
38. C
39. C

1111	E CHOICE		
1.	A	40	
2.	В	40.	Α
3.	D	41.	Α
4.	C	42.	С
5.	В	43.	Α
6.	В	44.	В
7.	В	45.	D
8.	A	46.	Α
9.	C	47.	Α
10.	D		c
11.	D	48.	
12.	A	49.	В
13.	C	50.	В
14.	В	51.	С
15.	В	52.	С
16.	C	53.	В
17.	C	54.	D
18.	В		
19.	C	55.	В
20.	A	56.	Α
21.	В	57.	D
22.	A	58.	D
23.	E	59.	В
24.	C	60.	С
25.	A	61.	В
26.	D	01.	_
27.	D		
28.	В		
29.	D		
30.	C		

).	Α		62.	Α
). l. 2. 3.	Α		63.	С
2.	С		64.	
3.	Α		65.	Α
↓.	В		66.	Α
			67.	
5. 7.	Α		68.	В
7.	Α		69.	С
3.).	С		70.	Α
).	В		71.	В
).	В		72.	Α
l.	С		73.	С
2.	С		74.	В
). 1. 2. 3.	В		75.	Α
₽.	D		76.	D
	В		77.	C
5.	Α		78.	В
7.	D		79.	В
3.	D		80.	D
	В		81.	В
).	С		82.	В
l.	В		83.	Α
			84.	В

85.	D
86.	В
87.	Α
88.	С
89.	Α
90.	В
91.	В
92.	A
93.	Α
94.	С
95.	A
96.	А
97.	В
98.	D
99.	C
100.	В
101.	В
102.	С
103.	D
104.	В
105.	č
106.	В
	_