Name\_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) After the following Dim statement is executed, how many subscripted variables called *myvar(i)* will 1) be available? Dim myVar(7) As Double A) 0 C) 8 D) 9 B) 1 Answer: C 2) 2) What names are displayed in the list box when the button is clicked? Private Sub btnDisplay\_Click(...) Handles btnDisplay.Click Dim name(4) As String Dim sr As IO.StreamReader = IO.File.OpenText("DATA.TXT") For i As Integer = 0 To 4name(i) = sr.ReadLine Next sr.Close() lstBox.Items.Clear() For i As Integer = 4 To 0 Step -2lstBox.Items.Add(name(i)) Next End Sub Assume the five lines of the file DATA.TXT contain the following entries: Bach, Borodin, Brahms, Beethoven, Britain. A) Britain, Brahms, and Bach B) Britain, Beethoven, Brahms, Borodin, and Bach C) Bach, Borodin, Brahms, Beethoven, and Britain D) Bach, Brahms, and Britain Answer: A 3) What is the output of the following program segment? 3) Dim numbers(3) As Double, h As Double = 0Dim sr As IO.StreamReader = IO.File.OpenText("DATA.TXT") For i As Integer = 0 To 3numbers(i) = CDbl(sr.ReadLine) Next sr.Close() For k As Integer = 0 to 3h += numbers(k)Next txtBox.Text = CStr(h)Assume the four rows of the file DATA.TXT contain the following entries: 2, 4, 2, 3 A) 11 C) 4 B) 2 D) 7

```
Answer: A
```

4) Given the Dim statement below, which set of statements will initialize all elements of myArray() to 4) 100? Dim myArray(100) As Double A) For i = 0 To 100 (i) = 100Next B) myArray() is already initialized to 100 by the Dim statement. C) For j = 0 to 100 myArray(j) = 100Next D) myArray = 100Answer: C 5) What is the output of the following program segment? 5) Dim antonym(7) As String Dim sr As IO.StreamReader = IO.File.OpenText("DATA.TXT") For i As Integer = 0 To 6 Step 2 antonym(i) = sr.ReadLine antonym(i + 1) = sr.ReadLine Next sr.Close() txtBox.Text = antonym(3) Assume the twelve rows of the file DATA.TXT contain the following entries: big, small, black, white, old, young, fast, slow, tall, short, hard, soft. A) white B) black C) small D) Subscript out of range Answer: A 6) Each individual variable in the list 6) student(0), student(1), student(2) is known as a(n) A) type. B) dimension. C) element. D) subscript. Answer: C 7) 7) The ReDim statement causes an array to lose its current contents unless the word ReDim is followed by the keyword C) Add A) MyBase B) CInt D) Preserve Answer: D 8) The GetUpperBound(0) function returns what information about an array? 8) A) the highest dimension of the array B) the largest value that can be assigned to an array element C) the highest number that can be used as a subscript for the array D) the number of elements in the array Answer: C TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 9) If the following statement appears in a program, the array score() must have been declared using 9) the String data type. score(1) = 87

Answer: True Sealse

10) Like other variables, array variables can be declared and assigned initial values at the same time. 10) Answer: **O** True False 11) If you use the ReDim statement to make an array smaller than it was, data in the eliminated 11) elements can be retrieved by using the Preserve keyword. True False Answer: 12) The following statements are valid. (T/F)' 12) x = CInt(InputBox("Enter number of items to be processed:")) ReDim myArray(x - 1) Answer: 2 True False SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 13) Consider the following Visual Basic statements: 13) Dim nums(4) As Double For index As Integer = 0 To 4nums(index) = 1 + (index \* 2)Next What values are placed in the array by the above statements? (Show each element of the array and the value for that element.) Answer: nums(0)=1, nums(1)=3, nums(2)=5, nums(3)=7, nums(4)=914) What will be the size of the array *stones()* after the following two lines of code are 14) executed? Dim stones() As String = {"Watts", "Jagger", "Wood", "Richards"} ReDim Preserve stones(10) Answer: 11 MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 15) What is the value of j after the following code segment has been executed? 15) Dim state(49) As String, j as Integer 'Assume that the data file STATES.TXT contains 'the names of the 50 states of the United States 'in the order they were admitted to the union. Dim sr As IO.StreamReader = IO.File.OpenText("STATES.TXT") j = 0Do While sr.Peek <> -1 state(j) = sr.ReadLine j += 1 Loop sr.Close() For i As Integer = 0 to state.GetUpperBound(0) lstBox.Items.Add( "State Number " & i + 1 & " is " & state(i)) Next A) 48 B) 49 C) 50 D) Unable to determine Answer: C

16) Which of the following is NOT an example of an ordered array?

10) 111				a array.		10)	
Æ	A) num() 457	457	457	458	]		
	107	107	107	100	l		
E	3) years()	1 1011	0011	1001	1		
	1877	1944	2011	4301			
C	C) cities()						
	Selah	Wapato	Yakima	Zillah			
C	)) nbrhoods()						
	Hockinson	Bush Prairie	Dollars Corner	Battle Ground			
	2						
Ans	swer: D						
				the value of the	element <i>namfriend(0)</i> is	17)	
		n of the other follo	0	1	u e		
	A) namfriend()	As String = { B) namfrie	-	a", "frea",	D) namfriend(4)		
	swer: A	Dy Hammer		y naminiena(5)	b) huminicita(4)		
7 11 1							
TRUE/FALSE	. Write 'T' if the s	statement is true a	and 'F' if the state	ement is false.			
18) Arr	ays are said to be	ordered only if th	e values are in as	cending order.		18)	
Ans	swer: True	False					
19) The	estatement					19)	
Din	n newlist(10)	-					
		ariable where each	n element has the	value of 10.			
Ans	swer: True	False					
20) In t	he line of code					20)	
		/al score() As	s Integer) As	Integer		·	
		es that follows <b>sc</b> o	ore can be remov	ved.			
Ans	swer: True	False					
21) In t	he line of code					21)	
		Integer = {55,	-			·	
		ne array <i>score()</i> is 1	12.				
Ans	swer: True	False					
-	-	rst element of an o	ordered list and s	earching successi	ive elements is known as a	22)	
-	uential search.						-
Ans	swer: 📀 True	False					

16)

23) Consider the following structure definition. Which Dim statement would correctly declare an array 23) of this structure for elements having subscripts from 0 through 30? Structure carType Dim yr As Integer Dim make As String Dim model As String End Structure A) You cannot have an array of structures. B) Dim carType(30) As car C) Dim car(30) As carType D) Dim carType(30) Answer: C 24) Each of the following statements declares a control array except one. Which of the following 24) statements does not create a control array? A) Dim txtNumber(8) As TextBox B) Dim btnAmount() As Button C) Dim lblTitle(10) As Label D) Dim score(5) As Integer Answer: D 25) A program contains a form (Form1) with four text boxes (TextBox1, TextBox2, TextBox3, and 25) TextBox4) and a button. The line Dim txtBox(3) As TextBox is placed in the Declarations section of the Code window. This code makes txtBox(3) available to which of the following? A) all of the form's procedures B) TextBox3's event procedures only C) the three textboxes's event procedures only D) the button's event procedures only Answer: A 26) 26) Suppose a structure is created with the code Structure stateUSA Dim capCity As String Dim stateNum As Integer End Structure in the Declarations section of the Code editor. Which of the following statements correctly declares a variable of type stateWA? A) Dim stateWA As Structure B) Dim stateWA As stateUSA C) Dim stateWA As Member D) Dim stateUSA As stateWA Answer: B

27) A program contains a form (Form1) with three text boxes (TextBox1, TextBox2, and TextBox3) and a button The line	27)
<b>Dim txtBox(2) As TextBox</b> is placed in the <i>Declarations</i> section of the Code window. The three lines	
txtBox(0) = TextBox1	
txtBox(1) = TextBox2	
txtBox(2) = TextBox3	
are placed in the Form1_Load procedure for this program. The button's click event procedure	
contains the code	
For lpNum As Integer = 0 To 2	
txtBox(lpNum).Text = "Value is " & lpNum + 1	
Next	
What output will be displayed in <i>txtBox(1)</i> when the button is clicked?	
A) Value is IpNum B) Value is 2 C) 2 D) Value is 1	
Answer: B	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
28) A program contains a form (Form1) with three textboxes (TextBox1, TextBox2, and TextBox3). The	28)
line	
Dim txtBox(3) As TextBox	
is placed in the Declarations section of the Code window. The three lines	
<pre>txtBox(3) = TextBox1</pre>	
txtBox(1) = TextBox2	
txtBox(2) = TextBox3	
are placed in the Form1_Load procedure for this program. This code will cause an error because	
the numbers of the subscripted control array elements do not match up to the numbers at the end of	
the default text box names.	
Answer: True 🔮 False	
29) Suppose a structure is created with the code	29)
Structure stateUSA	
Dim capCity As String	
Dim yearFounded As Integer	
End Structure	
in the Declarations section of the Code window. In this structure, the variable <i>capCity</i> is known as a <i>member</i> .	
Answer: O True False	
20 A structure can contain members that are simple variables only members connect be arrays	20)
30) A structure can contain members that are simple variables only; members cannot be arrays.	30)
Answer: True 🔮 False	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
31) How many comparisons will be made in the first pass of a bubble sort of 6 items?	31)
A) 4 B) 6	
C) 5 D) depends on the elements to be sorted	
Answer: C	

Answer: C

	-	From the following list of unsorted items, how many passes of a bubble sort are required to sort the list in ascending order?						32)	
	list in ascer Groucho A) 1	iding order Harpo		Zeppo	Chico C) 3	Gummo	D) 4		
	Answer: C								
3		embles the f	amiliar carr	nival game			under walnut shells.	33)	
	C) it was	0	y Donald S	<b>J</b> .	lls) of unsorted d	ata.			
	Answer: C								
3	34) Assume a k compared	-	-	for "Mank	ato" in the follow	ving list. Which c	ity would be	34)	
	Akron	Hartf		Ithaca	Seattle	Tulsa			
	A) Seattl Answer: E	e	B) Hartfor	d (	C) Akron	D) Tulsa	E) Ithaca		
	85) Each of the	following	epresents a	step in the	bubble sort algor	thm except one.	Which of the	35)	
	A) Comp B) On th last it C) Comp	pare the firs le final com ems. pare the sec pare the firs	t and last ite parison of the	ems. If they he first pas rd items. I	n a list by the bub y are in the wrong s, the possible sw f they are in the w they are in the w	g order, swap the vap is between th vrong order, swa	em. le next-to-last and lp them.		
3	will be true	?	-		-	-	n of the following	36)	
					n its proper posi in their proper p				
	C) The la	ast item onl	y is guarant	eed to be i	n its proper posit e in their proper	ion.			
	Answer: C		-						
TRUE/	ALSE. Write	'T' if the st	atement is	true and 'F	' if the statemen	is false.			
	37) A binary sea searched for				ccessively dividi t present.	ng the list in halv	res until the item	37)	
	Answer: 📀	True	False						
3	88) Both the <i>bu</i> variables.	bble sort and	the <i>Shell so</i>	ort require	the interchanging	g of values stored	l in a pair of	38)	
	Answer: 🥝	True	False						
	39) When usin ordered.	g the <i>bubble</i>	<i>sort</i> algorith	nm, only li	sts containing da	ta of the String ty	vpe can be correctly	39)	
	Answer:	True 🤇	False						

40)		-	m, which compares distant items first and works its way down to nearby It than the <i>bubble sort</i> algorithm.	40)
	Answer: 🥝	True	False	
41)	The bubble	sort is usu	ually faster than the Shell sort.	41)
	Answer:	True	False	
42)	A binary se	arch that k	begins in the middle of a list does not require the data to be in any order.	42)
	Answer:	True	False	
43)	•	•	nment statements can be used to swap a pair of array elements, three ts alone cannot swap all the items in one array with all of the items in and	43) other
	Answer:	True	False	
SHORT A	ANSWER. V	Vrite the v	vord or phrase that best completes each statement or answers the quest	ion.
44)	smallest to age(6)=32. (a) What is (b) What is (c) What is Answer: (a)	largest: ag the conter the conter the conten )3, 16, 21, 1	e(0)=16, $age(1)=3$ , $age(2)=21$ , $age(3)=43$ , $age(4)=2$ , $age(5)=16$ , ats of the array after one pass? ats of the array after two passes? ats of the array after three passes? 2, 16, 32, 43	44)
		-	6, 21, 32, 43 6, 21, 32, 43	

45)

45) Given an array of size 10 with the following ten values stored in order—1.8, 2.9, 4.7, 9.3, 10.1, 13.6, 17.4, 19.2, 21.5, 23.3—you want to perform a binary search for the value 4.7. What are the successive values of First, Last, and Middle as determined when performing this search? (Fill in the table below until the search is completed.)

First	Middle	Last	
0		9	

Answer:	First	Middle	Last
	0	4	9
	0	1	3
	2	2	3

8

46) Assume the *array b()* has been filled as shown. What is the output of the following program segment?

b() 0 1 2 3 s = 0\_ \_ \_ For k As Integer = 0 To 20 2 3 4 5 s += b(k, k + 1)Next 1 6 5 4 3 Τ. lstBox.Items.Add(s) 2 1 2 3 4 5 Т 3 6 5 4 3 Т A) 64 B) 12 C) 25 D) 13 E) None of the above Answer: B 47) Which of the following types of variables is capable of holding the information contained in a table 47) \_\_\_\_\_ that has four rows and four columns? A) single-subscripted variables B) simple variables C) double-subscripted variables D) one-dimensional arrays Answer: C 48) 48) Which of the following types of variables can only hold a single item of data? A) two-dimensional arrays B) single-subscripted variables C) simple variables D) double-subscripted variables Answer: C 49) 49) Which of the following declarations can be used to create a three-dimensional array? A) Dim newVar(2, 2, 2) As Double B) Dim newVar(3, 3) As Double C) Dim newVar(3) As Double D) Dim newVar(3) As TextBox Answer: A TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 50) Arrays that are capable of holding the contents of a table with several rows and columns, are 50) known as two-dimensional arrays or double subscripted variables. Answer: **2** True False 51) 51) The statement Dim nextVar(3, 5) As Double declares a two-dimensional array that can store a table containing 4 columns and 6 rows of numeric data. Answer: True False 52) A two-dimensional array can be declared and initialized at the same time. 52) Answer: 🥥 True False

46) \_\_\_\_\_

Ę	53) In the two-dimensional array declaration <b>Dim newVar(,)</b> As <b>Double =</b> {{1, 2, 3}, {4, 5, 2054}, {6, 802, 2786}} the comma in newVar(,) can be removed.						
	Answer:	True	<ul> <li>False</li> </ul>				
Ę		-	only be one- or <i>two-dimensional</i> .	54)			
	Answer:	True	False				
5	5) ReDim stat	ements o	can be used to change a one-dimensional array into a three-dimensional array.	55)			
	Answer:	True	False				
Ę		ray(15	g statements, the first subscript in the second statement references the column. , 20) As Double = 0	56)			
	Answer:	True	False				
MULTI	PLE CHOICE	. Choos	e the one alternative that best completes the statement or answers the question.				
Ę	A) data r B) data r C) anyth D) data r	nay be r nay be s ing that	utput means that ead from and stored onto the disk. tored onto the disk. appears as output on the screen is written to the disk. ead from the disk.	57)			
	Answer: B						
Ę	A) data r B) data v C) data v	nay be r vritten te vritten te	ed for Append, ead starting at the beginning of the file. o the file replaces the data already there. o the file are added at the end of the file. o the file are inserted at the beginning of the file.	58)			
Ę	ascending of Dim letter Do While letter Dim sw ".TXT") sw.Wri sw.Clo Loop	order.W er As s IO.S sr.Ped = sr. As IO teLine se()	treamReader = IO.File.OpenText("ALPHABET.TXT")	59)			
	sr.Close		is prested containing all of the latters of the studie but in law success				
	B) Twen each c C) An "ir	ty-six fi containir nvalid fi	is created containing all of the letters of the alphabet in lowercase. les are created and named with one of the uppercase letters of the alphabet and ng only its own file name. le name" error is produced.				
		o many f	iles open" error is produced.				
	Answer: B						

60) Which of the following is an example of how a <i>filespec</i> for a sequential file would be written within						
a Visual Basic application? A) "C\TEXT FILES\INCOME DATA.TXT" C) "C:\TEXT FILES\INCOME DATA.*"	B) C:\TEXT FILES\INCOME DATA.TXT D) "C:\TEXT FILES\INCOME DATA.TXT"					
Answer: D						
61) Which of the terms in the following line of co as all other references were also updated?	de are named variables that could be replaced as long	61)				
<pre>sr = IO.File.OpenText(fileName)</pre>						
A) IO B) fileName	C) OpenText D) File					
Answer: B						
<ul><li>62) If a sequential file is opened for input, then the A) data to be deleted from the file.</li><li>B) data to be appended to the end of the file</li><li>C) data to be placed into the file by the Vision</li></ul>	le by the Visual Basic application.	62)				
D) data that is in the file to be used in the V	/isual Basic application.					
Answer: D						
63) Which one of the following is NOT an examp	-	63)				
<ul> <li>A) accessing the wrong property value</li> <li>C) viruses</li> </ul>	B) typos D) using an incorrect formula					
Answer: C	, 3					
<ul><li>64) When an exception is generated by a Visual E</li><li>A) restart the program.</li><li>B) continue to execute the program.</li><li>C) terminate the program.</li></ul>	Basic application, the default exception handler will	64)				
D) display a dialog box that asks the user if	f they wish to restart the computer.					
Answer: C						
65) Which of the following exceptions will be ger contain a disk?	nerated by trying to access a disk drive that doesn't	65)				
A) OverflowException C) NullReferenceException Answer: D	<ul><li>B) IndexOutOfRangeException</li><li>D) IO.DirectoryNotFoundException</li></ul>					
66) The code for an application tests to see if a file	e exists using the following line in the Try block:	66)				
<b>IO.File.Exists(fileName)</b> The first catch block is written as follows:						
Catch exc As IO.IOException This catch block is meant to handle which of t A) an exception generated by deleting or re B) an exception generated by attempting to C) an exception generated by attempting to D) any exception that hasn't been handled	enaming an open file o access a file within a folder that is missing o access a file that is missing					
Δ						

Answer: A

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

67)	To get rid o	f an existi	ng file, execute a statement of the form IO.File.Delete(filespec).	67)
	Answer: 🥝	True	False	
68)			ated in Visual Basic using a StreamWriter, the extension .TXT is automatically e if no other extension is specified.	68)
	Answer:		<ul> <li>False</li> </ul>	
69)	If an existin end of this o		ial file is opened for output, the computer will append any new data to the e.	69)
	Answer:	True	False	
70)	An individ	ual item o	f a sequential file cannot be changed or deleted directly.	70)
	Answer: 🥝	True	False	
71)	In a Try-Ca is thrown ir		ly block, the clause in the first listed Catch block is considered if an exception lock.	71)
	Answer: 🥝	True	False	
72)		File.Cre	eateText(fileName) olds the value of a <i>filespec</i> for an existing sequential file.	72)
	Answer:		<ul> <li>False</li> </ul>	
73)			e that is initiated by the keyword Catch and doesn't contain any additional gardless of whether an exception occurred.	73)
	Answer:	True	False	
74)			to access a missing file within an existing folder using the OpenText method, undException will be thrown.	74)
	Answer:	True	False	
SHORT A	ANSWER. V	Vrite the v	vord or phrase that best completes each statement or answers the question.	
75)			le modes that Visual Basic allows you to use when accessing a file? 75) ut, and Append	
MULTIPI	E CHOICE	. Choose	the one alternative that best completes the statement or answers the question.	
76)	Dim words words = 2 A) Split a B) Split p C) Split p	s() As s line.sp adds a con barses or s barses or s		76)

Answer: C

77) Which of the tasks is the <b>Dim line As Stri</b>	ng	plete in the following	statement?	77) _
line = Join(strA				
B) Join concatenate	parates out all items of text s the values of all elements of	-		
	en successive values. s the values of all elements (	of line and adds a com	mato the end of the line	
-	parates out all items of text			
Answer: B				
code would be used to A) Dim sr1 As I	merges sequential files with o open a file for output? O.StreamReader = IO.T .StreamWriter = IO.F	File.OpenText(fil	Le3)	78)
C) file3 = txtD D) data1 = CDbl	ataMerged.Text			
Answer: B	(SII.ReadLine)			
79) When merging sequer	ntial files without duplicatio	ns, the last step in any	algorithm should be to	79)
complete which of the			-	-
B) Index all opened	l files.		-	
C) After there is no other file.	longer data in one of the or	dered files, write out a	II remaining data in the	
D) Close all opened	files.			
Answer: D				
	g means which of the follow	-		80)
	processes data based on a va processes data based on a va	-		
	processes data based on a ch	5.	variable	
	processes data based on a va	•		
Answer: C				
81) Identify the control va Dim loopStart As Dim message As S		block.		81)
Dim loopContinue				
Do While loopCon message = "The	tinue <= 3 number is " & loopCo	ontinue		
MessageBox.Sho loopContinue +				
Lоор A) loopStart	B) loopContinue	C) message	D) Integer	
Answer: B		c) message	by integer	

83)	•	t, the term Join is used to a ma delimited line that can putputLine, ","))		5	83)
	Answer: 🧟 True 🛛 F	alse			
84)	Sequential files must alw. Answer: True OF	ays be opened, processed, alse	and closed within a single	e procedure.	84)
MULTIPL	E CHOICE. Choose the	one alternative that best c	ompletes the statement o	r answers the question.	
85)	<pre>A) lstBox.Clear() B) For i As Intege lstBox.Items. Next</pre>				85)
	C) lstBox.Items.C D) lstBox.Items.Re				
	Answer: C				
	num the index of that pos these properties must also num = lstbox.Items A) The Sorted property B) The Sorted property C) The Sorted property	will insert <i>str</i> into the list b ition provided that one of have been set to allow the <b>Add(str)</b> of the list box has been se of the list box has been se of the list box has been se of the list box has been se	the following has also occ statement to complete the t to Alphabetical. t to True. t to False.	urred. Which one of	86)
87)	and Gnu in its list. If the v A) 1	as its Sorted property set t vord Elephant is added to B) 2			87)
	Answer: D				
	<ul><li>Which of the following control to type selections?</li><li>A) Simple ComboBox</li><li>C) DropDown Combol</li><li>Answer: C</li></ul>	ontrols has a drop down ar Box	row and an attached text B) ListBox D) DropDownList Con		88)
	OpenFileDialog1.Sho After a file has been selec OpenFileDialog1.Fi	ted and the Open button is	s pressed, the value of		89)

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

90)	Assume IstBox has its Sorted property set to True. After the following statement is executed, the value of the Integer variable <i>num</i> is the index of the position in the list where "Hello" was inserted. <b>num = lstBox.Items.Add("Hello")</b>	90)
	Answer: O True False	
91)	The following lines of code display all the items of IstBox.	91)
	<pre>For n As Integer = 1 to lstBox.Items.Count     lstBox2.Items.Add(lstBox.Items(n)) Next</pre>	
	Answer: True 🔮 False	
92)	In a Simple combo box, the list is always visible.	92)
	Answer: O True False	
93)	If no item in a combo box is selected, the value of IstBox.SelectedIndex is 0. Answer: True Selected False	93)
94)	The value of cboBox.Text is the currently highlighted item.	94)
	Answer: O True False	
95)	For a list box named lstBox, the following statement will delete the first occurrence of the value of <i>num</i> from its list. lstBox.Items.RemoveAt(num)	95)
	Answer: True <i>Q</i> False	
96)	With a simple combo box, the list drops down when the user clicks on the arrow and then disappears after a selection is made.	96)
	Answer: True 🔮 False	
97)	The DropDownStyle property of a combo box must be set at design time. Answer: <a>True</a> False	97)
98)	Combo boxes have most of the same properties, events, and methods as list boxes.	98)
	Answer:  True False False	
99)	In order to use the OpenFileDialog control, the programmer must first change its Name property to something other than the default OpenFileDialog1.	99)
	Answer: True 🔮 False	
100)	The following statement could be used to set the Filter property of the OpenFileDialog control so that it displays files with the .TXT extension. Text Files (*.TXT) (.TXT)	100)
	Answer: True 🔮 False	

<ul> <li>101) Which of the following techniques does NOT always tog check box control?</li> <li>A) Press Alt+Access key (if an access key has been spe B) Set the Checked property equal to 1.</li> <li>C) Press the spacebar when the square has the focus.</li> <li>D) Click on the square or its caption with the mouse.</li> </ul>	-	101)
Answer: B		
<ul> <li>102) For a scroll bar, the value of the Value property is</li> <li>A) a number between the values of the Minimum and</li> <li>B) a number between the values of the SmallChange a</li> <li>C) true or false.</li> <li>D) any number.</li> <li>Answer: A</li> </ul>	• •	102)
<ul> <li>103) To move the scroll box of a scroll bar a large distance</li> <li>A) click on the bar between the scroll box and the furth</li> <li>B) It can only be moved by writing code.</li> <li>C) click on the scroll box.</li> <li>D) click on the furthermost arrow button.</li> <li>Answer: A</li> </ul>	hermost arrow.	103)
104) When a check box is checked, the value of the Checked p A) False. B) True. C, Answer: B	oroperty will be 0. D) 1.	104)
	cture into a picture box control? ) picBox.Image = Image.FromFile <i>(filespec)</i> ) picBox.Image = <i>filespec</i>	105)
	em from a list? ) OpenFileDialog ) Timer Control	106)
<ul> <li>107) A check box control named chkFirst contains the following procedure. Which of the following is true concerning the Dim message As String = "hello" MessageBox.Show(message)</li> <li>A) The message "hello" will appear when the user checunchecked.</li> <li>B) The message "hello" will appear when the user checunchecked.</li> <li>C) The message "hello" will appear when the user unchecked.</li> </ul>	use of this control? cks the control but not when it is cks the control and again when it is	107)
<ul> <li>C) The message "hello" will appear when the user und checked.</li> <li>D) The message "hello" will not appear using this sour Answer: B</li> </ul>		

	radio buttons can be se A) 4	elected (that is, be "on") : B) 1	at any given time? C) 2	D) 3	
	Answer: B	, -	-, -	, -	
109)	of the picture box to th	ne left side of the rectang	-	(in pixels) from the left side	109)
	A) w	B) x	с) у	D) h	
	Answer: B			,	
110)	= hsbXpos.Value is label on the form, and	s placed inside the hsbX the hsbXpos's Minimun open when the hsbXpos.	pos.Scroll event procedu n and Maximum propert	e statement <b>lblFace.Top</b> re (where lblFace identifies a les are set at their default by moving the scroll bar's	110)
	A) IblFace will mov C) IblFace will mov	e to the left.	B) IblFace will n D) IblFace will n	nove to the right. nove up.	
	Answer: C				
RUE/FA	LSE. Write 'T' if the st	atement is true and 'F' i	f the statement is false.		
111)	) With a check box conti	rol, toggling the state of	the small square triggers	the CheckChanged event.	111)
	Answer: 🥝 True	False		, i i i i i i i i i i i i i i i i i i i	·
112)	) With a scroll bar contr 100 respectively.	ol, the default values of	the Minimum and Maxir	num properties are 1 and	112)
		False			
113)		roperty of a picture box to fit the picture control		nage, a picture placed in the	113)
	Answer: 🥝 True	False			
111	The main properties of	f a scroll bar are set in m	illimators		114)
114,		False	innineters.		114)
115)			ty to False, the attached c	ontrols will still remain	115)
	Answer: True	False			
116	) When a check box con	trol has focus, the space	bar can be used to invoke	e its CheckedChanged event.	116)
	Answer: <a>True</a>	False			,
117	) The timer control is in	visible during run time.			117)
117,	Answer: <a>True</a>	False			
			the PLANE BMP image	to the picBox picture box	118)
118)	control at runtime. picBox.Image = "	C C	ther LANE.DWI Image		_/

119) The Clipboard object i A) Paste text from t C) Clear the Clipbo Answer: B	•	ng except which one? B) Clear the screer D) Copy text to the		119)
A) txtBox.SelectedT	eplacing the selected text in f ext = Clipboard ext = Clipboard.GetText	B) txtBox.Selected	s of the Clipboard is Text = Clipboard.SetText Text = Clipboard.Text	120)
-			uted.) ext(1, 7)	121)
122) MenuStrip controls re A) Double Answer: B	spond to which one of the fo B) Click	bllowing events? C) Load	D) Change	122)
<ul><li>B) the BorderStyle  </li><li>C) the user not bein is hidden.</li></ul>	to osition a form at run time. property is set to "3-Fixed D og allowed to shift the focus play more than one form at	to any other form until	the displayed modal form	123)
Clipboard.SetTex will be placed into the btnClip,?	•	Clip's Click event proced the word "Hello" into t	lure. At run time, what	124)
<ul><li>A) Cause secondFor</li><li>B) Declare secondFo</li><li>C) Set the focus to s</li></ul>	rm as an instance of the Form	m2 class.	h of the following?	125)

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

126)	Pressing Ctrl+V with position.	h the cursor in a text box inserts the contents of the Clipboard at the cursor	126)
	Answer: 🥥 True	False	
127)	Menus are designed	with the MenuStrip control invoked from the Toolbar.	127)
	Answer: 🥥 True	False	
128)	When working with Answer: True	n multiple forms, only one form can be visible at one time. <ul> <li>False</li> </ul>	128)
129)		ot lose the focus until the form disappears.	129)
	Answer: 🥝 True	False	
130)	A random number of Dim rndNum As N	generator object can be declared with the following statement. New Random()	130)
	Answer: 🥝 True	False	
131)	-	n the MenuStrip control, the programmer is not allowed to set up access keys by nd in front of a character of text.	131)
	Answer: True	False	
MULTIP	LE CHOICE. Choose	e the one alternative that best completes the statement or answers the question.	
In the foll executed.	owing exercises assu	me the statement <b>Dim gr As Graphics = picOutput.CreateGraphics</b> h	as been
132)	What is the effect of <b>50</b> , <b>60</b> )?	the statement gr.DrawString("Hello", Me.Font, Brushes.Blue,	132)
	A) Display the wo		
	Answer: D		
133)	A) gr.DrawStri	at displays the value of the string variable <i>strVar</i> with yellow letters. ing(strVar, Me.Font, Yellow, 50, 50) ing(strVar, Me.Font, Color.Yellow, 50, 60)	133)
	,	ing(strVar, Me.Font, Pens.Yellow, 50, 60) ing(strVar, Me.Font, Brushes.Yellow, 50, 60)	
	Answer: D		
134)	Give a statement that lower-right corner.	at draws a red diagonal from the upper-left corner of the picture box to the	134)
	0	e(Pens.Red, picOutput.Width, 0, 0, picOutput.Height)	
	,	e(Pens.Red, 0, 0, picOutput.Width, picOutput.Height)	
		e(Pens.Red, 0, 0, picOutput.Height, picOutput.Width) e(Color.Red, 0, 0, picOutput.Width, picOutput.Height)	
	Answer: B		

135)	135) The distance from the top of the picture box to the top of the circle drawn by the statement gr.DrawEllipse(Brushes.Red, 10, 20, 40, 40) is.			135)	
	A) 80 pixels	B) 10 pixels	C) 40 pixels	D) 20 pixels	
	Answer: D	<i>·</i> · ·	<i>,</i> ,		
136)		deletes all graphics and te	· ·		136)
	A) picOutput.Dei C) picOutput.Cle		B) picOutput.Re D) picOutput.Te		
	Answer: C				
TRUE/FA	LSE. Write 'T' if the st	atement is true and 'F' if	the statement is false.		
137)		awLine(Pens.Red, 0, w lines of the same length	, 0, 30, 40) and gr.E	prawLine(Pens.Red,	137)
	Answer: 🧧 True	False			
138)	) The statement gr.Fil rectangle of width 40 p		.Red, 10, 20, 30, 4	0) draws a solid	138)
	Answer: True 🤇	False			
139)	) The sector of a circle w	vith sweep angle 90 consis	sts of a-quarter of the circl	e.	139)
	Answer: 🧧 True	False			
140)	) Animation can be proc	duced by placing an imag	e in a picture box and mov	ving the picture box.	140)
	Answer: 🥝 True	False			
141)	) The statement <b>Dim</b> pr	As Pen = Pens.Blu	e is valid.		141)
	Answer: 🧧 True	False			
142)	) The pair of statements				142)
	Gr.DrawString("He	New Font("Times Nello", fnt, Brushes lo", fnt, Brushes lo in 12-point Times Nev	.Blue,10,10)		
	Answer: 🥝 True	False			
MULTIP	LE CHOICE. Choose th	ne one alternative that be	est completes the statemer	nt or answers the questio	n.
143)	) A rectangular array of	data is called a			143)
	A) field. C) database manage	ement system	B) table. D) record.		
	Answer: B	· · · · <b>·</b> · · · · ·	_,		
1 <i>11</i>	) Each row in a table is a	also called a(n)			144)
144,	A) selection.	B) field.	C) array.	D) record.	(דדי <u> </u>

Answer: D

<ul> <li>145) Which property should be used to bind a list box to a data table?</li> <li>A) The Items property of the list box.</li> <li>B) The DataSource property of the list box.</li> <li>C) The DataSource property of the data table.</li> <li>D) The Bound property of the list box.</li> </ul>	145)
Answer: B	
<ul> <li>146) Which of the following is a collection of one or more (usually related) rectangular arrays of data?</li> <li>A) a field</li> <li>B) a database</li> <li>C) a record</li> <li>D) a table</li> <li>Answer: B</li> </ul>	146)
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
147) Each entry of a field of a table must contain some information. Answer: True 🛛 False	147)
148) The management of databases is the number one use of computers today. Answer: <a>True</a> False	148)
<ul> <li>149) DataBase Explorer is used to browse through all parts of a database.</li> <li>Answer: <ul> <li>True</li> <li>False</li> </ul> </li></ul>	149)
<ul> <li>150) If <i>dt</i> is a DataTable object, then the value of dt.Columns.Count</li> <li>is the number of records in the table.</li> <li>Answer: True <ul> <li>False</li> </ul> </li> </ul>	150)
151) A list box can be bound or connected directly to a data table.	151)
Answer: • True False	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
<ul> <li>152) What is a primary key?</li> <li>A) a field that uniquely identifies each record</li> <li>B) the largest field in every record</li> <li>C) the first field in every record</li> <li>D) the first field specified when a table is created</li> </ul>	152)
Answer: A	
<ul> <li>153) SQL is an abbreviation for</li> <li>A) Structured Query Language.</li> <li>C) Simple Query Language.</li> <li>Answer: A</li> </ul> B) Standard Query Language. D) None of the above	153)
<ul> <li>154) A virtual table is also called a(n)</li> <li>A) hierarchy table.</li> <li>B) view.</li> <li>C) appendix.</li> <li>D) standard table.</li> </ul>	154)

155) Which one of the following statements is true about primary keys?	155)
A) Only a single record can be used as a primary key.	
B) A column of names is usually a good choice for use as a primary key.	
C) A primary key is used to uniquely identify records in a table.	
D) Social Security numbers are never used as a primary key.	
Answer: C	
156) Which of the following terms is defined as two or more interdependent tables?	156)
A) join B) Rule of Referential Integrity	130/
C) SQL D) relational database	
Answer: D	
Answer. D	
157) The error message	157)
You cannot add or change a record because a related record is required in table 'Countries'.	
will be generated by attempting which of the following with the MEGACITIES database?	
A) The user tries to request a joined table using the SQL language.	
B) A user tries to enter a record in the table Countries that doesn't contain data in the primary	
key.	
C) A user tries to enter a record to the table Countries with the same primary key as another record.	
D) A user tries to add a record to a table that is related to the Countries table, and that record	
contains a foreign key value that does not correspond to a primary key value in the Countries	
table.	
Answer: D	
158) The error message	158)
The changes you requested to the table were not successful because they	·
would create duplicate values in the index, primary key, or	
relationship. Change the data in the field or fields that contain	
relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit	
relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.	
relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again. will be generated by attempting which of the following?	
relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.	
relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again. will be generated by attempting which of the following? A) A user tries to enter a record in the table Countries with the same primary key as another	
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the</li> </ul>	
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> </ul>	
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> </ul>	
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> <li>D) A user tries to enter a record in the table Countries that doesn't contain data in the primary</li> </ul>	
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> <li>D) A user tries to enter a record in the table Countries that doesn't contain data in the primary key.</li> </ul>	
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<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> <li>D) A user tries to enter a record in the table Countries that doesn't contain data in the primary key.</li> <li>Answer: A</li> </ul> 159) The following form of SQL command is classified as which of the four basic types of SQL requests? SELECT field1, field2,, fieldN FROM Table1 WHERE criteria	159)
<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> <li>D) A user tries to enter a record in the table Countries that doesn't contain data in the primary key.</li> <li>Answer: A</li> <li>159) The following form of SQL command is classified as which of the four basic types of SQL requests? SELECT field1, field2,, fieldN FROM Table1 WHERE criteria</li> <li>A) Request III: join the tables together (connected by a foreign key) and present the records</li> </ul>	159)
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<ul> <li>relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.</li> <li>will be generated by attempting which of the following?</li> <li>A) A user tries to enter a record in the table Countries with the same primary key as another record.</li> <li>B) A user tries to add a record to a table that is related to the Countries table, and that record contains a foreign key value that does NOT correspond to a primary key value in the Countries table.</li> <li>C) A user tries to request a joined table using the SQL language.</li> <li>D) A user tries to enter a record in the table Countries that doesn't contain data in the primary key.</li> <li>Answer: A</li> <li>159) The following form of SQL command is classified as which of the four basic types of SQL requests? SELECT field1, field2,, fieldN FROM Table1 WHERE criteria</li> <li>A) Request III: join the tables together (connected by a foreign key) and present the records</li> </ul>	159)

Answer: B

160)	0	of SQL command is classified as which of the four basic types of SQL requests?	160)
	A) Request III: join	able1 wHERE criteria In the tables together (connected by a foreign key) and present the records	
	-	ke available just some of the fields of either the basic table or joined <i>table</i>	
		v the records of a table in a specified order w just the records that meet certain criteria	
	Answer: D		
161)		t below would be used to display all of the records from the Cities table that	161)
		the second character in the name listed in their city field?	
	,	OM Cities WHERE city Like 'e%' OM Cities WHERE city Like '_e%'	
	,	OM Cities WHERE city Like 'E%'	
	•	OM Cities WHERE city Like 'eb_%'	
	Answer: B		
162)	A program uses the I		162)
	Dim commandBuild	As New OleDb.OleDbDataAdapter(sqlStr, connStr) der As New OleDb.OleDbCommandBuilder(dataAdapter)	
		dapter.Update(dt)	
	-	with changes made to a data table through a DataGridView control. In this ne following is not the name of a variable?	
	A) connStr	B) dataAdapter C) Update D) changes	
	Answer: C		
		statement is true and 'F' if the statement is false. ial Integrity insists that each value in the foreign key must also appear in the	163)
	primary key of the ot		·
	Answer: 🧕 True	False	
164)	A foreign key allows meaningful way.	Visual Basic to join together two tables from a relational database in a	164)
	Answer: 🦻 True	False	
165)	5	create virtual tables in Visual Basic.	165)
	Answer: 🧿 True	False	
166)	SQL can be used in V	/isual Basic to sort records.	166)
	Answer: 오 True	False	
167)		ew) of a database table may be displayed in a DataGridView control by setting the OleDbDataAdapter equal to the appropriate SQL string.	167)
	Answer: 💿 True	False	
168)			
100)	ordered by the specif	command, the phrase WHERE criteria is used to present the records as fied field or fields. ROM clause WHERE criteria	168)
100)	ordered by the specif	fied field or fields.	168)

169)	If a DataGridView control is filled from a table whose DataAdapter uses an SQL statement of the form	169)
	<b>SELECT * FROM clause ORDER BY field ASC</b> the result will be the display (in ascending order) of all records that are contained in the table or tables designated by <i>clause</i> .	
	Answer: O True False	
170)	If a DataGridView control is filled from a table whose DataAdapter uses the SQL statement (with the database MEGACITIES) SELECT * FROM Cities WHERE city Like 'S%'	170)
	the result will be the display of all of the records from the Cities table that contain the letter S in the name listed in their city field.	
	Answer: True Salse	
171)	An SQL clause of the form tbla INNER JOIN tblB ON foreign key of tbla=primary key of tblB causes two tables to be joined.	171)
	Answer: V True False	
172)	The statement <b>dgvDisplay.DataSource = dt</b> (where dgvDisplay is the name of a DataGridView control and <i>dt</i> is a data table) will display the	172)
	contents of a data table in a data grid. Answer: <a> True</a> False	
173)	The Washington State Department of Motor Vehicles maintains a database on all licensed drivers and the cars that they own within the state. In the first table (Names) they have a listing of all of the names of all licensed drivers; they have created a unique license number to identify each individual within this database. In a related second table (Vehicles), the cars owned by Washington State drivers are tracked. Since drivers often own more than one car, an individual's name (and their corresponding driver's license number) is likely to appear more than once in this second table. Therefore, we say that there is a one-to-many relationship from the names table to the vehicles table in this database. Answer: True False	173)
SHORT A	ANSWER. Write the word or phrase that best completes each statement or answers the question.	
	wing exercises refer to the Countries table discussed in the text. The table has three fields— <i>country, pop2</i> Jnit—with country as the key field. In these exercises, give an SQL statement that can be used to accomp k.	
174)	Show the records from Countries in descending order based on the 2005 population. 174)	
	Answer: SELECT * FROM Countries ORDER BY pop2005 DESC	
175)	Show the records from Countries whose monetary unit has five characters. 175)	
	Answer: SELECT * FROM Countries WHERE monetaryUnit Like ''	

<ul> <li>176) Which line of code will declare and create an instance using a class called <i>Faculty</i>?</li> <li>A) Dim instructor As New Faculty()</li> <li>B) Dim Faculty As instructor</li> <li>C) Dim Faculty As New instructor()</li> <li>D) Dim instructor As Faculty</li> <li>Answer: A</li> </ul>	e of a new object variable called <i>instructor</i>	176)
<ul><li>177) What is the purpose of the Get property procedure?</li><li>A) Access private methods.</li><li>C) Verify the data.</li><li>Answer: B</li></ul>	<ul><li>B) Retrieve the value of a property.</li><li>D) Assign values.</li></ul>	177)
<ul><li>178) Which procedure will set default values for member</li><li>A) Get property procedure</li><li>C) New</li><li>Answer: C</li></ul>	variables when an object is instantiated? B) Set property procedure D) Form1_Load	178)
<ul> <li>179) Which one of the following statements does NOT app A) Object-oriented programming helps to prevent time a minor change needs to be made.</li> <li>B) Object-oriented programming makes use of the C) Object-oriented programming depends on the understanding all of the code that contains the within an object.</li> <li>D) Object-oriented programming makes use of the procedures that act on the data.</li> <li>Answer: C</li> </ul>	the complete rewriting of a program every e principle of "data hiding." programmer having access to and data and procedures that are encapsulated	179)
<ul> <li>180) Which of the following is an example of a control obj</li> <li>A) array</li> <li>B) list box</li> <li>Answer: B</li> </ul>	ect? C) string variable D) primary key	180)
<ul> <li>181) Which of the following statements applies to code ob</li> <li>A) They are created from the Toolbox.</li> <li>B) They include objects of the type TextBox and Li</li> <li>C) They require the writing of a class block of code</li> <li>D) They are predefined and have physical manifes</li> <li>Answer: C</li> </ul>	stBox. e.	181)
<ul> <li>182) Which of the following is an accurate definition of the A) An object-oriented program is a specific instance B) An object-oriented program is a template from C) An object-oriented program is populated with a respond to methods, and raise events.</li> <li>D) An object-oriented program is an encapsulation and responds to methods.</li> </ul>	ce of a user-defined type. which objects are created. objects that hold data, have properties,	182)

Answer: C

1	A) obje B) obje C) varm	ectName ectName Name = c seEvent	methodName propertyNa	gns a value to a property? e(arg1,) ame = value .propertyName	183)
TRUE	FALSE. Write	e 'T' if the	statement is	true and 'F' if the statement is false.	
1	84) Member v	ariables ir	n a class are no	ormally specified as Private.	184)
	Answer: 🤇	True	False		
1	85) Set proper	ty proced	ures are used	to assign values to member variables.	185)
	Answer: 🤇	True	False		
1	86) Two instar	nces of the	e same class m	nay exist in a single program.	186)
	Answer: 🤇	True	False		
1	of the form Dim obje	n. ectname	As classNa	eclaration section of a form's Code editor with a pair of statements ame me(arg1, arg2,)	187)
	Answer:	True	False		
1	88) A good ru of the prok Answer:		b for object-o	riented programming is that classes are the verbs in your analysis	188)
	Answer.	nue	V Faise		
1				iction procedures.	189)
	Answer: 🤇	True	False		
1	90) Each list bo	ox is said t	o be an <i>instan</i>	nce of the class ListBox.	190)
	Answer: 🤇	True	False		
1	instance va thrown.	ariable. If	these variable	ord <i>m_name</i> demonstrates the proper name for a member or es are declared without the prefix "m_", an exception will be	191)
			As String		
	Answer:	True	False		
1				used to access (indirectly) member or instance variables, must property procedures.	192)
	Answer:	True	False		
1	93) Each class instantiate	-	cial method ca	alled a <i>constructor</i> that is sometimes invoked when an object is	193)
	Answor	Truo	👩 Ealso		

Answer: True 🧧 False

194) The constructor method requires at least one argument, and the code inside the procedure block 194) performs any tasks needed for initializing an object. Answer: True False MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 195) 195) Which of the following is an example of an array declaration whose data type is a user-defined object? A) Dim students(50) As Student B) Dim students(50) As String C) Dim students(50) As Integer D) Dim students(50) As TextBox Answer: A 196) In the following code block, which of the following represents the line of code that assigns the 196) value of the Name property? Class Student Private m\_name As String Public Property Name() As String Get Return m\_name End Get Set(ByVal Value As String) m\_name = Value End Set End Property End Class A) Return m\_name B) m\_name = Value C) Private m\_name As String D) End Class Answer: B 197) \_\_\_\_ 197) Which of the following statements best applies to the term user-defined events? A) User-defined events are predefined objects with physical manifestations. B) User-defined events are used to communicate changes of properties, errors, and the progress of lengthy operations. C) User-defined events represent specific instances of a user-defined type. D) User-defined events are populated with objects that hold data, have properties, respond to methods, and raise events. Answer: B 198) 198) Statements of which of the following kind should be placed in the Declarations section of a class code block? A) Dim WithEvents object1 As ClassName B) RaiseEvent UserDefinedEvent(arg1, arg2, ...) C) Private Sub object1\_UserDefinedEvent(par1, par2, ...) \_ Handles object1.UserDefinedEvent D) Public Event UserDefinedEvent(ByVal par1 As dataType1, \_ ByVal par2 As dataType2, ...)

Answer: D

<ul> <li>199) Statements of which of the following kind should be placed in the form's code to declare an instance of a class that contains an event?</li> <li>A) Dim WithEvents object1 As ClassName</li> <li>B) Public Event UserDefinedEvent(ByVal par1 As dataType1,</li></ul>	199)
<pre>C) RaiseEvent UserDefinedEvent(arg1, arg2,) D) Private Sub object1_UserDefinedEvent(par1, par2,) _ Handles object1.UserDefinedEvent</pre>	
Answer: A	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
200) The statement for triggering a user-defined event is located in the form's code and the event is dealt with in the class block of code.	200)
Answer: True 🥥 False	
201) The statement for triggering a user-defined event is located in the class block of code and the event is dealt with in the form's code.	201)
Answer: <ul> <li>True</li> <li>False</li> </ul>	
202) The keyword WithEvents is inserted into the standard declaration statement for instantiation of a class to allow the instance to respond to an event.	202)
Answer: <a>Crue</a> False	
203) It can be said that class Student contains class College when a member variable of class Student makes use of an object of type class College.	203)
Answer: 🧕 True False	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the questic	n.
204) Which of the following terms does not describe a relationship between classes? A) containment B) subclass C) inheritance D) use Answer: B	204)
205) Which of the following best defines the term <i>hierarchy</i> ? A) the process by which the properties, methods, and events of one class are passed onto anothe class	205) r
<ul><li>B) when one class manipulates or changes objects of another class</li><li>C) when a member variable of class A makes use of an object of type class B</li><li>D) the collection of a parent class along with its descendants</li></ul>	
Answer: D	
<ul> <li>206) Which of the following best defines the term <i>inheritance</i>?</li> <li>A) when one class manipulates or changes objects of another class</li> <li>B) when a member variable of class A makes use of an object of type class B</li> <li>C) the collection of a parent class along with its descendants</li> <li>D) the process by which the properties, methods, and events of one class are passed onto anothe class</li> <li>Answer: D</li> </ul>	206)

Parent	
Property A	
Sub B	
Child1 Child2 Child3	
Event C Property D	
GrandChild1GrandChild2Function EEvent G	
Sub F	
<ul> <li>207) In the hierarchy chart shown above, GrandChild1 has access to each of the following items (as a result of inheritance), except one. Which of the following is GrandChild1 NOT able to access?</li> <li>A) Sub B</li> <li>B) Property A</li> <li>C) Event C</li> <li>D) Property D</li> <li>Answer: D</li> </ul>	207)
200) Which of the following is a honofit of inheritance?	208)
<ul><li>208) Which of the following is a benefit of inheritance?</li><li>A) Inheritance allows variables to be collected in arrays.</li></ul>	208)
B) Inheritance leads to the duplication of code in multiple classes.	
C) Inheritance allows two or more classes to share some common features yet differentiate	
themselves on others.	
D) Inheritance allows Visual Basic applications to directly connect to databases. Answer: C	
Allswei. C	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
209) Inheritance does not enhance code reusability.	209)
Answer: True 🔮 False	
210) Inheritance is the process by which the parent or base class inherits the properties, methods, and events of the child or derived class.	210)
Answer: True 🔮 False	
211) The programmer needs to be able to identify useful hierarchies of classes and derived classes in working with object-oriented programming.	211)
Answer: 🥝 True False	
212) The feature that two classes can have methods with different names but that have the same purpose (and essentially the same implementation), is known as <i>polymorphism</i> .	212)
Answer: True 🔮 False	
213) In inheritance, the keyword Overridable is used to designate the parent's methods that may be overridden by its children.	213)
Answer: 🧕 True False	

214) The keyword MustInherit is used to declare an abstract base class.	214)
Answer: <a> </a> False	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the questi	ion.
In the exercises below, fill in the blank with one of the following six words:	
a. user-defined b. polymorphism c. derived d. interface e. uses f. Get	
215) The set of properties, methods, and events for a class is called a class Answer: interface	215)
<ul> <li>216) In addition to the predefined events for classes, such as New, other events can be defined by the programmer to communicate changes of properties, errors, and the progress of lengthy operations. Such events are called events.</li> <li>Answer: user-defined</li> </ul>	216)
217) One class another class if it manipulates objects of that class. Answer: uses	217)
218) If class A inherits the properties, methods, and events of class B, then class A is referred to as a class of class B. Answer: derived	218)