Select theletter of the most appropriate answer and shade in the corresponding region on the answer sheet. If no answer seems appropriate then shade in region E on the answer sheet.

B) analyze the nature	eded for the user interface of a problem programming language does		
2) simplify the pro A) Programming lang C) Graphical user inte	-	nat can be translated to mac B) Output devices D) Variables	hine language.
3) A word that has a specifiA) a variable	c, predefined meaning in a pro B) a keyword	ogramming language is cal C) a comment	
-	nments (remarks) to s understand the program n more efficiently	B) make the program D) make the code rur	
 5) Flowcharts are used to A) check for syntax err C) describe the program 	ors		the control flow in a method trols required for a program
A) It is a storage locatiB) It is a key element ofC) It performs various	ng statements is true about a v on in memory represented by of the graphical user interface operations on data mming statements to perform a	a name	
A) To verify there areB) To verify the applic	n a program using test data for no syntax errors in the program cation produces correct results ramming language elements a art is correct.	n.	
8) Which of the following is A) 123	s an example of a binary numb B) 202	ber? C) 324	D) 1010
9) The part of a program th A) methods	at users see and interact with i B) user interface	s known as the C) properties	D) algorithm
B) convert a program	r in commenting he/her code from a programming languag age the documentation for an a		

C) are errors found		ning	
12) What is the result after A) 6	r evaluating the following B) 5	expression: 24 MOD 9 C) 2	D) 3
13) A Boolean type variab A) -1 or +1	le can hold only one of tw B) 0 or 1	o possible values: С) А ог в	D) True or False
A) Multiplication arB) Exponentiation (C) Addition and sul	nd division the ^ operator) btraction	precedence in arithmetic expre evaluated from left to right.	ssions?
15) What will be the value	of intAnswer after exect	ution of these statements?	
Const intNumA As Const intNumB As intAnswer = intNu	-	JumA * intNumB	
A) 18	B) 16	C) 15	D) 12
			D) 12
A) 18	te after the following state nteger nteger nteger		D) 12
A) 18 16) What is the value of in Dim intC As I: Dim intD As I: Dim intE As I: intC = 20 intD = 3	te after the following state nteger nteger nteger		D) 12 D) 6
 A) 18 16) What is the value of in Dim intC As I: Dim intD As I: Dim intE As I: intC = 20 intC = 20 intD = 3 intE = intC \ A) 6.666667 17) What is the value of di Dim dblA as Do Dim dblB as Do Dim dblC as Do Dim dblC as Do Dim dblA = 45 dblB = 30 dblC = 3 * dbl 	<pre>## after the following state nteger nteger intD B) 0 bloutcome after the follow puble puble puble as Double</pre>	ments execute?	D) 6

18) Which of the following code segments assigns the string "Great Year" to the Text property of a label named bM essage when the value in the variable decSabs is either greater than 50,000 or equal to 50,000?

A) If decSales >= 50000 Then	B) If decSales < 50000 Then
blMessage.Text = "Great Year"	lblMessage.Text = "Great Year"
End If	End If
C) If decSales > 50000 Then	D) If decSales <= 50000 Then
lblMessage.Text = "Great Year"	lblMessage.Text = "Great Year"
End If	End If

- 19) Suppose you want to determine whether a variable, decPayAmount, is between 1200 and 1400, inclusively. If it is, you want to set bM essage text to "Pay amount is in the range". Which of the following code segments will accomplish this?
 - A) If decPayAmount > 1200 Or decPayAmount < 1400 Then lblMessage.Text = "Pay amount is in the range" End If
 B) If decPayAmount <= 1200 And decPayAmount>= 1400 Then lblMessage.Text = "Pay amount is in the range" End If
 C) If decPayAmount >=1200 And decPayAmount <=1400 then lblMessage.Text = "Pay amount is in the range" End If
- 20) What value is assigned to decTaxes by the following program segment, assuming that the user enters 50000 into the textbox txtSalary.Text?

<pre>Dim decSalary, decTaxes As Decimal decSalary = CDec (txtSalary.Text) If decSalary > 50000 Then decTaxes = .40 * decSalary ElseIf decSalary > 40000 Then decTaxes = .30 * decSalary ElseIf decSalary > 30000 Then decTaxes = .20 * decSalary Else decTaxes = .10 * decSalary Else decTaxes = .10 * decSalary End If</pre>			
A) 15000	B) 10000	C) 5000	D) 20000
21) If the Boolean express	ion A is <i>True</i> and B is <i>False</i> , th	ne value of the logical expres	sion ^A And ^B is
A) True	B) False	C) 1	D) 0
22) If the Boolean express	ion A is <i>True</i> and B is <i>False</i> , th	ne value of the logical expres	sion A OrB is
A) True	B) False	C) 1	D) 0

23) What is assigned to bM essage Textwhen the following code segment executes?

```
Dim strName1 As String = "Jim"
  Dim strName2 As String = "John"
  If strName1 > strName2 Then
       lblMessage.Text = "Jim is greater"
  Else
       lblMessage.Text = "John is greater"
  End If
    A) Jim is greater
                             B) John is greater
                                                     C) True
                                                                             D) False
24) Which of the following operators takes a Boolean expression and reverses its logical value?
    A) Not
                             B) <>
                                                     C) Xor
                                                                             D) And
25) What value will be assigned to strGrade when intScore equals 90?
   If intScore > 60 Then
       strGrade = "D"
  End If
  If intScore > 70 Then
       strGrade = "C"
  End If
  If intScore > 80 Then
       strGrade = "B"
  End If
   If intScore > 90 Then
       strGrade = "A"
  End If
```

A) A B) B C) C D) D

26) In the following statement that begins a For...Next loop, what is the purpose of the Step clause?

For intX = 1 to 100 Step 5

- A) It causes int x to be initialized to 5 when the loop begins.
- B) It causes int X to be incremented by 5 each time the loop repeats.
- C) It causes int X to be decremented by 5 each time the loop repeats.
- D) It causes the loop to end when intX is equal to 5.

27) What is the difference in the execution of the Do UntilLoop (first example) and the Do Loop Until (second example)?

```
' First Example
   sngPayAmount = 200
  Do Until sngPayAmount > 150
       sngPayAmount = sngPayAmount - 50
  Loop
   'Second Example
   sngPayAmount = 200
  Do
      sngPayAmount = sngPayAmount - 50
  Loop Until sngPayAmount > 150
     A) The first loop will execute one more time than the second loop.
     B) The first loop will never be executed while the second is an infinite loop.
     C) Both loops are executed in an identical manner.
     D) The first loop will never be executed while the second loop will execute once.
28) What is wrong with the following code?
  Dim intIndex As Integer
```

```
For intIndex = 5 To 1
ListBox.Items.Add(intIndex.ToString)
North
```

Next

- A) You need to specify a negative step value in order to execute this loop.
- B) A ForNextloop cannot be used to count backward.
- C) The Next statement must read Next intIndex.
- D) intIndex is declared incorrectly for use with this type of loop.

29) Which type of loop repeats as long as its loop condition remains <i>True</i> ?				
A) Do Next	B) DoWhile	C) Do Until	D) all of the above	

30) Which statement is True in regard to the following code?

```
intCount = 0
Do While intCount < 10
    lstOutput.Items.Add("Good Job")
Loop</pre>
```

- A) The Item s.Insertmethod should be used instead of Item s.Add.
- B) This is an infinite loop.
- C) intCountshould start at -1.
- D) The text Good Job should not have quotation marks around it.

31) Which of the following code fragments calculates the average of 5 numbers input with an input box, and displays the result in bResul?

```
A) intCount = 0
  intSum = 0
  Do While intCount <= 5
     intValue = CInt(InputBox("enter a number"))
     intSum = intSum + intValue
     intCount += 1
  Loop
  sngAvg = intSum / intCount
  lblResult.Text = sngAvg.ToString()
B) intCount = 0
  intSum = 0
  Do While intCount <=5
     intValue = CInt(InputBox("enter a number"))
     intSum = intSum + intValue
  Loop
  sngAvg = intSum / intCount
  lblResult.Text = sngAvg.ToString()
C) intCount = 0
  intSum = 0
  Do While intCount < 5
     intValue = CInt(InputBox("enter a number"))
     intSum = += intValue
     intCount += 1
  Loop
  sngAvg = intSum / intCount
  lblResult.Text = snqAvq.ToString()
D) intCount = 5
  intSum = 0
  Do While intCount = 5
     intSum = CInt(InputBox("enter a number"))
     snqAvg = intSum / intCount
     lblResult.Text = sngAvg.ToString()
  Loop
```

32) How many times will the message I love Visual Basic be displayed?

```
Dim intCount As Integer = 0
Do
IstOutPut.Items.Add("I love Visual Basic")
intCount += 1
Loop While intCount > 10
A) It will display 2 times.
C) It will display once.
B) It will display 10 times.
D) It will not be displayed at all.
```

33) What will be the final value of intCount?

```
Dim intCount As Integer = 3
Do
intCount += 6
Loop While intCount < 20
A) 20 B) 21 C) 9 D) 15
```

34) Which of the following code examples is a function that will accept three integer parameters, calculate their average, and return the result?

```
A) Function Average(ByVal intX As Integer, ByVal intY as Integer, _
  ByVal intZ As Integer) As Single
  Average = intX + intY + intZ / 3
  Return Average
  End Function
B) Function Average(ByVal intX As Integer, ByVal intY As Integer, _
  ByVal intZ As Integer) As Single
  Average = (intX + intY + intZ) / 3
  End Function
C) Function Average(ByRef intX As Integer, ByRef intY as Integer, _
      ByRef intZ As Integer, ByRef Average As Double)
  Average = (intX + intY + intZ) / 3
  End Function
D) Function Average (ByVal intX As Integer, ByVal IntY as Integer, _
      ByVal intZ As Integer) As Single
  Return (intX + intY + intZ) / 3
  End Function
```

35) What is the value of introtalafter the following code executes?

```
Dim intNumber1 As Integer = 2
Dim intNumber2 As Integer = 3
Dim intTotal As Integer
intTotal = AddSquares(intNumber1, intNumber2)
Function AddSquares(ByVal intA As Integer, ByVal intB As Integer) As Integer
intA = intA * intA
intB = intB * intB
Return intA + intB
intA = 0
intB = 0
End Function
A) 5
B) 13
C) 0
D) 10
```

36) Which of the following code segments will copy the values of a 5 element array named into HValues into another 5 element array named into ewValues?

```
A) intIndex = 0
       Do While intIndex < 5
                intNewValues(intIndex) = intOldValues(intIndex)
                intIndex = intIndex + 1
       Loop
     B) intIndex = 1
       Do While intIndex <=5
                intNewValues(intIndex) = intOldValues(intIndex)
                intIndex = intIndex + 1
       Loop
     C) For intIndex = 1 To 5
            intNewValues(intIndex) = intOldValues(intIndex)
       Next intIndex
    D) For intIndex = 0 To 4
            intOldValues(intIndex) = intNewValues(intIndex)
       Next intIndex
37) Values in an array are stored and worked with using a _
    A) subscript
                            B) element locator
                                                    C) locator
                                                                            D) method
38) In the array declaration below, what is the significance of the number 7?
     Dim strNames(7) As String
```

- A) It's one greater than the upper bound of the array.
- B) It's the value assigned to the array elements.
- C) It's the upper bound (highest subscript value) of the array.
- D) It indicates the number of elements in the array.

39) The lowest possible s	subscript of an array is	·	
A) 0	B) –1	C) There is no limit	D) 1
40) Which type of loop i	s designed specifically to use	a subscript to access the elements of	an arrav?
40) which type of loop is	s designed specifically to use	a subscript to access the elements of	an array?

A) For While	B) For…Next	C)Do Until	D) Do While
--------------	-------------	------------	--------------------