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

B) analyze the nature of	eded for the user interface of a problem programming language does				
<ol> <li>2) simplify the pro- A) Programming langu</li> <li>C) Graphical user inter</li> </ol>		nat can be translated to mac B) Output devices D) Variables	hine language.		
<ol> <li>A word that has a specific A) a variable</li> </ol>	;, predefined meaning in a pro B) a keyword	ogramming language is cal C) a comment			
<ul> <li>4) Programs should use comments (remarks) to</li> <li>A) help human readers understand the program</li> <li>C) make a program run more efficiently</li> </ul>		B) make the program	B) make the program smaller in size D) make the code run faster		
<ul> <li>5) Flowcharts are used to</li> <li>A) check for syntax err</li> <li>C) describe the program</li> </ul>	ors	B) graphically depict the control flow in a method D) determine the controls required for a program			
<ul><li>A) It is a storage location</li><li>B) It is a key element on</li><li>C) It performs various</li></ul>	ng statements is true about a v on in memory represented by f the graphical user interface operations on data nming statements to perform a	a name			
<ul><li>A) To verify there are r</li><li>B) To verify the applic</li></ul>	a program using test data for to syntax errors in the program ation produces correct results amming language elements a art is correct.	n.			
8) Which of the following is A) 123	an example of a binary numb B) 202	ber? C) 324	D) 1010		
9) The part of a program tha A) methods	t users see and interact with i B) user interface	s known as the C) properties	D) algorithm		
B) convert a program f	in commenting he/her code rom a programming languag ge the documentation for an a				

C) are errors found	rors	5	
12) What is the result after A) 6	evaluating the following B) 5	expression: 24 M O D 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	ro possible values: C) A or B	D) True or False
<ul><li>A) Multiplication ar</li><li>B) Exponentiation (</li><li>C) Addition and sul</li></ul>	nd division the ^ operator) otraction	orecedence in arithmetic express	sions?
15) What will be the value	of intAnswer after exec	ution of these statements?	
ConstintNumAAsInte ConstintNumBAsInte intAnswer= intNumA,		√um B	
A) 18	B) 16	C) 15	D) 12
16) What is the value of in Dim intC As Integra Dim intD As Integra Dim intE As Integra intC = 20 intD = 3 intE = intC \intD	er er	ements execute?	
A) 6.666667	B) 0	C) 7	D) 6
Dim dblA as Do Dim dblB as Do Dim dblC as Do Dim dblOutcome dblA = 45 dblB = 30 dblC = 3 * dbl	ouble ouble ouble as Double	wing section of code executes?	
A) 0	B) 24	C) 80	D) 39

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) IfdecSales >= 50000 Then	B) IfdecSales < 50000 Then
bM essage.Text= 'G reatYear'	bMessage.Text= "GreatYear"
End If	End If
C) IfdecSales > 50000 Then	D) IfdecSales <= 50000 Then
bM essage .Text= "G reatYear"	bM essage Text= "GreatYear"
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) IfdecPayAm ount> 1200 OrdecPayAm ount< 1400 Then bM essage Text= "Pay am ount is in the range" End If
  - B) ffdecPayAm ount<= 1200 And decPayAm ount>= 1400 Then bM essage.Text= "Pay am ount is in the range" End ff
  - C) ffdecPayAm ount>=1200 And decPayAm ount<=1400 then bM essage.Text= "Pay am ount is in the range" End ff
  - D) fdecPayAm ount<=1200 O rdecPayAm ount>= 1400 Then bM essage.Text= "Pay am ount is in the range" End ff
- 20) What value is assigned to decTaxes by the following program segment, assuming that the user enters 50000 into the textbox txtSalary.Text?

Din decSahry,decTa decSahry = CDec (txt If (decSahry > 50000) decTaxes = 40 * d E beIf (decSahry > 40 decTaxes = .30 * d E beIf (decSahry > 30 decTaxes = .20 * d E be decTaxes = .10 * d End If	Sahry.Text) Then decSahry 000)Then decSahry 000)Then decSahry		
A) 15000	B) 10000	C) 5000	D) 20000
21) If the Boolean expressi	on A is <i>True</i> and B is <i>False</i> , t	the value of the logical expre	ssion A And B is
A) True	B) False	C) 1	D) 0
22) If the Boolean expressi	on A is <i>True</i> and B is <i>False</i> , †	the value of the logical expre	ssion <sup>A OrB</sup> is
A) True	B) False	C) 1	D) 0

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

Dim strNam el As String = "Jim " Din strNam e2 As String = "John" If strN am e1 > strN am e2 Then bMessage.Text= "Jim is greater" Else bM essage 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 intX 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)?

```
'FistExam ple
sngPayAm ount= 200
Do UntlsngPayAm ount> 150
sngPayAm ount= sngPayAm ount— 50
Loop
Second Exam ple
sngPayAm ount= 200
Do
sngPayAm ount= sngPayAm ount— 50
Loop UntlsngPayAm ount> 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?

Din intIndex As Integer

For intIndex = 5 To 1

A) Do Next

ListBox.Item s Add (intIndex.ToString)

Next

A) You need to specify a negative step value in order to execute this loop.

B) Do W hile

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 True?

~ `	-	
C)	Do	Until

D) all of the above

30) 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
  DoWhile intCount <= 5
       intValue = C Int(InputBox("entera num ber"))
       intSum = intSum + intValue
       intCount += 1
  Loop
   sngAvg = intSum / intCount
   bResult.Text = sngAvg.ToString()
C) intCount= 0
   intSum = 0
  DoWhile intCount < 5
       intValue = C Int(InputBox("entera num ber"))
       intSum = += intValue
      intCount += 1
   Loop
   sngAvg = intSum / intCount
   bResult.Text = sngAvg.ToString()
```

```
B) intCount = 0
  intSum = 0
  DoWhile intCount <= 5
      intValue = C Int(InputBox("entera num ber"))
      intSum = intSum + intValue
  Tioop
  sngAvg = intSum / intCount
  bResult.Text = sngAvg.ToString()
```

D) intCount = 5 intSum = 0DoWhile intCount= 5 intSum = C Int(InputBox("entera num ber")) sngAvg = intSum / intCount bResult.Text = sngAvg.ToString() Loop

D) 15

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

```
intCount = 0
DoWhile intCount < 10
   lstO utput.Item s Add("G ood Job")
```

Loop

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.

32) How many times will the message I love Visual Basic be displayed? Dim intCountAs Integer= 0 Do lstO utPut.ltem s Add("I bve V isualBasic") intCount += 1Loop W hile intCount > 10 B) It will display 10 times. A) It will display 2 times. C) It will display once. D) It will not be displayed at all. 33) What will be the final value of intCount? Dim intCountAs Integer= 3 Do intCount += 6 Loop W hile intCount < 20 A) 20 B) 21 C) 9

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 (ByValintX As Integer, ByValintY as Integer,_
   ByValintZ As Integer) As Single
  Average = intX + intY + intZ / 3
  Return Average
  End Function
B) Function Average (ByValintX As Integer, ByValintY As Integer,
  ByValintZ As Integer) As Single
  Average = (intX + intY + intZ)/3
  End Function
C) Function Average (ByRefintX As Integer, ByRefintY as Integer, _
        ByRefintZ As Integer, ByRefAverage As Double)
  Average = (intX + intY + intZ)/3
  End Function
D) Function Average (ByValintX As Integer, ByValintY as Integer, _
        ByValintZ As Integer) As Single
  Return (intX + intY + intZ)/3
  End Function
```

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

```
D in intNum berl As Integer = 2

D in intNum ber2 As Integer = 3

D in intTotalAs Integer

intTotal = AddS quares (intNum berl, intNum ber2)

Function AddS quares (ByValintA As Integer, ByValintB 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 BValues into another 5 element array named intNewValues?

```
A) intIndex = 0
Do W hile intIndex < 5
intNewValues(intIndex) = intO HValues(intIndex)
intIndex = intIndex + 1
Loop
B) intIndex = 1
Do W hile intIndex <=5
intNewValues(intIndex) = intO HValues(intIndex)
intIndex = intIndex + 1
Loop
C) For intIndex = 1 To 5
intNewValues(intIndex) = intO HValues(intIndex)
Next intIndex
D) For intIndex = 0 To 4
intO HValues(intIndex) = intNewValues(intIndex)</pre>
```

```
NextintIndex
```