VB

Note:

- These questions are given only to indicate the nature of questions for the Final Examination.
- The Final examination questions will not be confined to the ones in this question bank.
- The ATCs may prepare the Question Paper for the Model examination with the questions from this Question Bank.

- A statement that cannot execute properly in a VB project is a result of a…?
  [a] Syntax Error
  [b] Logic Error
  [c] Compile Error
  [d] Run-time Error

- In an If statement, when the condition is true?
  [a] only the Else clause is executed
  [b] only the ElseIf clause is executed
  [c] only the End If statement is executed
  [d] only the Then clause is executed

- The text property of a text box behaves like a?
  [a] string
  [b] numeric
  [c] variant
  [d] function

- A textbox is an example of which of the following?
  [a] Property
  [b] Method
  [c] Event
  [d] Control

- Checking to verify that appropriate values have been entered for a text box is called:?
  [a] validation
  [b] an Input Box
  [c] a MsgBox
  [d] a watch expression

- Where should the statement: Dim mstrAccntNumber As String, appear if you plan to use mstrAccntNumber in more than one procedure?
  [a] The general declarations section of a form
  [b] The Form_Load procedure

[c] The event procedure where mstrAccntNumber will be used

[d] The Global Constants file

- Which operator(s) has (have) the highest order of precedence in arithmetic expressions?

  [a] multiplication and division

  [b] addition and subtraction

  [c] exponentiation

  [d] operators are not significant, all calculations are evaluated from left to right.

- Variables declared within a Click-event procedure are _____ variables.

  [a] general

  [b] module-level

  [c] global

  [d] local

- When you declare a variable or a named constant, Visual Basic reserves an area of memory and assigns it a name called a(n)?

  [a] dimension

  [b] identity

  [c] declaration

  [d] identifier

- Image controls hold a graphic, which is assigned to the:?

  [a] image property

  [b] text property

  [c] picture property

  [d] caption property

- How many bytes of memory will the number 50000 consume if it is declared as a variant?

  [a] 13

  [b] 14

  [c] 15

  [d] 16

- In order to feel confident that all of the files that belong to a Visual Basic project remain together when the project is copied or moved to another disk, you should:?

  [a] use separate floppy disks for each project file.

  [b] save all of the project files together in the same folder on your disk.

  [c] use the same name for all of the objects in a project.

  [d] use remarks in the general declarations section of your project and list all of the files in the project.

- When you write a Visual Basic program, you follow a three-step process which should begin with:?
  [a] Setting the properties
  [b] Coding all of the remark statements
  [c] Defining the user interface
  [d] Declaring the variables

- The code that is used in a sub procedure to stop execution of a program is:?
  [a] Exit
  [b] End With
  [c] End
  [d] End Sub

- If you encounter a run-time error or you pause the program execution, you are in:?
  [a] compile time
  [b] break time
  [c] run time
  [d] design time

- Which one of the following is the correct syntax to make a control called Pic1 visible?
  [a] Pic1.Visible = True
  [b] Visible.Pic1 = True
  [c] Pic1.Invisible = False
  [d] Pic1.Enabled = True

- How many options can be selected if a Frame contains 4 Option buttons?
  [a] 1
  [b] 2
  [c] 3
  [d] 0

- Check whether the following section of code is correct. Give the output and suitable explanation for the statement

  (a)DIM str as string
  str = "VISUAL"
  I = Len (str)
  x = 1
  Do while I > 0
  print mid (str, x, I)
  x = x + 4
  I = I -1
  loop

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(b)DIM str as string
str = "programming in Visual Basic"
print strconv (Left (Mid (str, 16, 12), 6), Upper Case)

(c)DIM I As Integer
For I = 65 to 80
If I MOD 5 = 0, then
print chr (I)
End if
NEXT I

(d)Value = fix (-9.5)
print value
print abs (value) + value

(e)DIM Mystr As string, Pos1, Pos2
Mystr ="BCA / SEM – IV / VB"
Pos1 = Instr (Mystr, "/")
print pos1
Do while pos1 <>
Pos1 = Instr (pos1+1, Mystr, "/")
if pos1 – 0, then exit Do
pos2 = pos1
loop
print pos2
```

- Explain the following property settings:
  (a)To display form on full screen at runtime.
  (b)To move the control towards right hand side.
  (c)To display text in textbox at centre.
  (d)To display combobox as a listbox.
  (e)To set focus order for controls.
  (f)To display picture on the command button.
  (g)To add items on the listbox and design time.

- Use four command buttons with caption as:
  (1)Name of the Day
  (2)Name of the Month
  (3)Difference between two dates
  (4)Current date and time
  Draw an interface and code for the above. Use necessary controls to accept values.
- Use two command buttons 'Prime' and 'Factorial' and other necessary controls to accept required values.Write user defined functions to calculate factorial and power.
- Check whether the following section of code is correct. Give the output and suitable explanation for the statement:

(a) Dim Str as String
Str = "Bachelor of computer application"
Str = mid (str, 6, 12)
Print strconv (str, vbuppercase)

(b) Dim Var
Var = DateAdd ("d", 10, #10/03/2004#)
Print var
Print format (var, "dddd, mmm, yyyy")

(c) n1 = 0
n2 = 5
do
n1 = n1 + 1
n2 = n2 – 1
Print n1, n2
loop while n1 < n2

(d) 1st subject.clear
For counter = 0 to 5
1stsubject.listindex = counter
1stnewsubject.Addition (1stsubject.Text)
Next counter

(e) Dim j As Single
j = - 8.9
Print Abs (Int (j))
Print Abs (Fix (j))

- Explain the following property settings:
  (a) Place a picture in command button.
  (b) Property used to resize your label control according to your caption.
  (c) To allow users to enter Multiple Lines in a textbox but not more than 25 characters.
  (d) Add elements in a listbox and the element should be placed always in the 2nd position.
  (e) Property used to mask characters of password.
  (f) Property to add "My Picture" as a pop-up text for a picture box.
  (g) Property used to have a short cut key to access a command button.
- Draw an interface and code for the following. Also give the property settings for the appropriate controls:
  Use a textbook, that accepts text.
  Use a command button named 'Font'.
  When the user clicks on the command button, the current form gets enlarged and displays a frame consisting of –
  (1) Three combo boxes for selecting font, size and style respectively.
  (2) Two check boxes for giving an effect of strikethrough and underline respectively.
  (3) Two command buttons named 'OK' and 'Cancel' respectively.

When the user clicks on 'OK' button, the form should again shrink back to its original size and the text should be displayed according to the attributes selected by the user.

- Draw an interface and code for the same with interface having a form object, a common dialog box and a command button (for invoking the open dialog box).

  (1) The default file type and filtering should be set to picture files i.e. bmp, gif etc.

  (2) The default directory should be set to "d:\".

  (3) Invoke the open dialog box.

  (4) Select a particular filename and when the "OK" button is clicked, then the selected filename should be displayed in a message box and if the cancel button is clicked then an error should be generated.

- Explain the following methods of a form with syntax:

  ii. Hide

  iii. Unload

- Differentiate between Message Box and Input Box.

- Write a function that takes 2 numbers as parameters and returns the minimum of the two.

- Check whether the section of code is correct. Give suitable explanation, if there are errors and output, if the code is correct:

  (a) Dim checkme
  Checkme = IsNull(checkme)
  For ncount = 1 To Len(checkme)
  Print Mid(checkme, 1, ncount)
  Next ncount

  (b) Dim n() As String
  ReDim n(1 To 5) As Variant
  N(1) = "hello"
  Print n(1)

  (c) result = Fix(-4.5)
  Print result
  Print Abs(res)

  (d) num = InputBox("enter an integer greater than I")
  num = num * num
  Do
  Print num
  Num = num * num
  Loop While (num<100)
  What will be the output if the user enters
  (i) 3 (ii) 4

  (e) For row = 1 To 5
  For col = 1 To row

Print "*",
Next col
Print
Next row

- How to add a picture and clear a picture from a picture box?
- How can one arrange the list items alphabetically in a listbox?
- Draw an interface and write the code for the following program. Also give the property settings for the appropriate controls:

  Write a program to create a popup menu consisting of 2 menu items. The popup menu should be displayed when the user clicks the right button of the mouse. When user clicks on the menu items a msgbox should be displayed giving an appropriate message.
- Take a list box, text box on a form.
  Add 5 date functions in the list box at run time.
  When user selects any of the date function from the list box, the output should be displayed in the text box.
- Write a program to ask the user for a list of numbers and add them until the user wants to stop.
- Write a function to calculate the power i to the power n Where I and n both are integers and are taken as parameters of the function.
- Check whether the following section of code is correct. Give the Output and suitable explanation for the statement

  (a) Dim Var
  Var = DateAdd ("d", 20, #10/03/2008#)
  Print Var

  (b) Dim Sum as Integer
  Sum = 0
  For i =1 to 5 Step 1
  Sum = Sum + i
  Next i
  Print Sum

  (c) For row 1 to 5
  For col = 1 to row
  Print "*"
  Next col
  Print
  Next row

  (d) Dim I as Interger
  For i = 65 to 80
  If I mod 2 = 0 then
  Print chr (i)
  End if

Next i

(e) Form1.cls
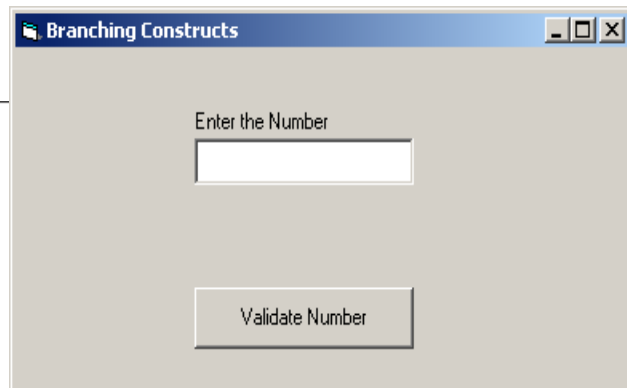From1.print mid$("Hello World", 1,5)

- Explain the following property settings :
  (a) To display maximized form at run time.
  (b) To change background color of the form.

  (c) To set time for timer event.
  (d) Property used has a short cut key to access a command button.
  (e) To add items on the list box at design time.
  (f) How to add a picture and clear a picture from a picture box?
- Draw an interface and code for the following. Also give the property settings for the appropriate controls
  (a) Use one command button, two radio buttons and one frame.
  Write a program in Visual Basic to convert a temperature entered in either Celsius or Fahrenheit into another.

  (b) Use 5 text boxes and 5 labels. Write a program in Visual Basic to accept item_code, item_name, quantity and rate. It should display total amount as quantity*rate. If invalid input is provided display message and accept correct input.
- Explain the following statements in VB with syntax and example :
  (i) Select ………. Case
  (ii) For ………. Next
  (iii) While ………. Wend
- Write a program in VB to accept 2 positive integers m and n and to check whether m is divisible by n or not.

Questions 19 to 21 refer to this VB code extract

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🔳 Branching Constructs                          _ □ ✕

                          Enter the Number

                          [                    ]



                              Validate Number
```

```vb
Private Sub cmdValidate_Click()

Dim intUserInput As Integer
Dim X As Currency

intUserInput = CInt(txtNum1.Text)
X = 40

If intUserInput > X Then
    Print "True"
    txtNum1.Text = intUserInput & " > " & X
ElseIf intUserInput = X Then
    Print "True"
    txtNum1.Text = intUserInput & " = " & X
Else
    Print "False"
    txtNum1.Text = intUserInput & " < " & X
End If

End Sub
```

- What output is displayed when the user enters 30 into the textbox and clicks on the command button?
  [a] False printed on the form and $30 > 40$ in the textbox
  [b] True printed on the form and $30 < 40$ in the textbox
  [c] True printed on the form and $30 = 40$ in the textbox
  [d] None of the Above

- What output is displayed when the textbox is left blank and the user clicks on the command button?
  [a] False printed on the form and $0 < 40$ in the textbox
  [b] True printed on the form and $0 > 40$ in the textbox
  [c] A Run-Time error occurs
  [d] None of the Above

- What output is displayed when the user enters 60 into the textbox and clicks on the command button?
  [a] False printed on the form and $60 > 40$ in the textbox
  [b] True printed on the form and $60 > 40$ in the textbox
  [c] A Run-Time error occurs
  [d] None of the Above

- What is the maximum caption size for a label?
  [a] 240 characters
  [b] 255 characters
  [c] Label does not have a Caption property
  [d] Unlimited

- What is the maximum caption size for a text box?
  [a] 240 characters
  [b] 255 characters
  [c] Unlimited
  [d] Text box does not have a Caption property

- What data-type is a numeric value entered into a text box treated as by default?
  [a] Integer
  [b] String
  [c] Variant
  [d] None of the above

- What would be the result of Val(Text1.Text) if you entered in ?:
  $3,000
  [a] 3000
  [b] 3
  [c] 0
  [d]Run-Time Error

- What would be the result of CInt(Text1.Text) if you entered in ?:
  50000
  [a] 0
  [b] 50000
  [c] 50,000
  [d] Run-Time Error

- A program construct used for selection is:?
  [a] iteration
  [b] for loop
  [c] select case
  [d] a sequence.

- What would be the result of CCur(Text1.Text) if you entered in ?:
  34.567m
  [a] 34.567
  [b] 34.57
  [c] 0
  [d] Run-Time Error

- What would be the result of Val(Text1.Text) if you entered in ?:
  34.567m
  [a] 34.567
  [b] 34.57
  [c] 0
  [d] Run-Time Error

- What would be the result of CInt(Text1.Text) if you entered in ?:
  20,000
  [a] 20,000
  [b] 20
  [c] Run-Time Error
  [d] 20000

- What is the default data-type in Visual Basic?
  [a] String
  [b] Integer
  [c] Variant
  [d] VB does not have a default data-type

- When designing an application User Interface (UI) using eight option buttons, which will be divided into two groups namely four option buttons relating to "Salary scale" and four option buttons relating to "Years with company" what design choice should be made?
  [a] Place 4 option buttons on one form and 4 on another
  [b] Create Form groups
  [c] Create Frame groups
  [d] None of the above

- Which of the following is the industry standard prefix for a double-precision floating point data type?
  [a] dou
  [b] dbe
  [c] dbl
  [d] None of the above

- A memory location that changes during project execution is known as a…..?
  [a] Dimension
  [b] Constant
  [c] Static
  [d] Variable

- What is the default property of a check box?
  [a] .Value
  [b] .Caption
  [c] .Text
  [d] .Checked

- The use of the 'Rem' keyword in VB denotes?
  [a] A line of documentation
  [b] Comment

[c] Remark Statement
[d] All of the above

- How many bytes of memory will the string literal "Hello World!"
  consume if it is declared as a string?
  [a] 21
  [b] 22
  [c] 23
  [d] 24

- How many bytes of memory will the string literal "Hello World!"
  consume if it is declared as a variant?
  [a] 31
  [b] 32
  [c] 33
  [d] 34

- Producing erroneous results in a VB project is a result of a…?
  [a] Syntax Error
  [b] Logic Error
  [c] Compile Error
  [d] Run-time Error

- Which function is used to check if data entered is in a numeric form before
  further processing?
  [a] Val function
  [b] CInt function
  [c] UCase function
  [d] IsNumeric function