



KERALA STATE RUTRONIX
System Engineering, VB & VB.NET
(DCA)

Question code

D7

Time : 2 hours

Maximum Marks : 100

Note: Write the answers for Questions from 1 to 40 in the MCQ answer sheet

Part - I Choose the most appropriate answer

(15 x 1 Mark = 15 Marks)

- 1) The form module has file extension
a) .frb b) .fra c) .frm d) .fru
- 2) Event procedures are type of procedure.
a) Module b) Sub c) Method d) Function
- 3) Variables declared within a button's click-event are called variables.
a) Local b) Private c) Global d) Module-level
- 4) The first character in a string has an index of
a) 1 b) - 1 c) -2 d) 0
- 5) control is used to provide an identifiable grouping for other controls.
a) Frame b) Label c) List box d) Command
- 6) property is used to set the maximum length of a text, a textbox can hold.
a) Length b) Multiline c) Maxlength d) None of these
- 7) control is used to display text, but user cannot change it directly.
a) Textbox b) Labelbox c) Listbox d) Command
- 8) The default data type for Visual Basic is
a) Integer b) Boolean c) Variant d) String
- 9) arrays can be resized at anytime.
a) Dynamic b) Fixed c) Multidimensional d) Control array
- 10) function is used to return a copy of a string without leading spaces.
a) Ltrim b) Rtrim c) Trim d) Chr
- 11) is a control related event.
a) Keydown b) Load c) Terminate d) GotFocus
- 12) combines the features of the text box and list box.
a) Picture box b) Check box c) Combo box d) Option button
- 13) Storage size of Byte data type is
a) 1 byte b) 2 byte c) 3 byte d) None of these
- 14) The default property for a text box control is
a) Text b) Password chars c) Multiline d) Visible
- 15) system is the one which interacts with its natural environment.
a) Open b) Deterministic c) Closed d) Probabilistic

Part - II Fill in the blanks**(15 x 1 Mark = 15 Marks)**

- 16) is the extension of a class module.
- 17) In VB.Net, the statement always checks the condition before it begins the loop.
- 18) In VB.Net, the declaration statement for variables is the statement.
- 19) VB.NET comment starts with
- 20) is a set of sequentially indexed elements having the same type of data.
- 21) displays the current drive and allows the user to select a different drive.
- 22) COM stands for
- 23) The event occurs before the form is displayed.
- 24) To add an item to a list box at runtime, use the method.
- 25) The function returns the number of characters in a parameter.
- 26) The property of a text box is what is displayed at runtime.
- 27) To have a default value for a combo box, set the
- 28) To display the number of items in a list box, use the property.
- 29) At runtime, a control with it's property set to False will be hidden.
- 30) Testing a system in the actual environment using real data is called

Part - III State whether true or false**(10 x 1 Mark = 10 Marks)**

- 31) To insert a picture into a picture box we can use Load Picture Method.
- 32) A Text Box control has the same function as a label control.
- 33) JIT stands for justify in time.
- 34) Common Language Runtime is the heart of .NET frame work.
- 35) In VB, we can declare variables Explicitly only.
- 36) Flowcharts and pseudo code are statements that describe the programs input and output.
- 37) The purpose of an algorithm is to define user interface.
- 38) Event procedures are also known as event keywords.
- 39) Finding and fixing programming errors is called debugging.
- 40) Beyond the Break Even Point, the Deterministic system provides greater benefits.

Part - IV Give the output of the following code segment**(5 x 2 Marks = 10 Marks)**

- 41)

```
Dim i As Integer
For i = 0 to 10
    If i = 3 Then
        Exit For
    End If
    Print i
Next i
```
- 42)

```
Dim num As Integer
num = 8
Do
    Print num
    num = num + 1
Loop While num < 10
```

- 43) Dim num As Integer, r As Integer, n As Integer
 n = 10
 r = n ^ 2
 num = n + r / n
 Print num
- 44) Dim a As Double, b As Double, c As Double
 a = 12: b = 5
 c = a / b
 Print c
- 45) Dim rem As Integer, num As Integer
 num = 21
 rem = num Mod 10
 Print rem

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Part - V Answer the following (Any Six)

(6 x 5 Marks = 30 Marks)

- 46) Operators in VB.net.
- 47) Draw the diagram of MicroSoft.Net Framework.
- 48) Write down the syntax of **For....Next** loop and explain with an example to print even number less than 10.
- 49) Explain the need of Normalization.
- 50) Write a VB.NET application for input 3 numbers through text box and find biggest number using IF().
- 51) Explain Key Design Goals for .NET frame work.
- 52) Briefly explain System Design objectives.
- 53) Write a program to find the factorial of a number.

Part - VI Answer the following (Any Two)

(2 x 10 Marks = 20 Marks)

- 54) Explain management information system.
- 55) Write the VB/VB.NET program to print the months when the number of month is entered through a textbox (eg: January=1)
- 56) Explain core object of .NET frame work data provider.
- 57) Explain Decision structure with example.