

[Estd. by Govt. of Kerala]

## VB / VB.NET, System Engineering (DCA-FT)

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) .....window lists all the forms which make up the VB project.  
a) Property                      b) Tool box                      c) Project                      d) Coding
- 2) Which is not a legal return value for MsgBox?  
a) vbOK                      b) vbCancel                      c) vbExit                      d) vbAbort
- 3) While creating a menu using a menu editor we can use a ..... symbol to make hotkey character.  
a) #                      b) \*                      c) @                      d) &
- 4) VB.NET comment starts with .....  
a) //                      b) /\*                      c) \*                      d) '
- 5) Visual Basic is ..... type of programming language.  
a) Event driven                      b) Object oriented                      c) Menu driven                      d) None of these
- 6) ..... are the back bone of SQL.  
a) Database                      b) Queries                      c) Functions                      d) None of the these
- 7) The ability to define properties, methods, or procedures that have the same name, but use different data types is called .....  
a) Exception handling                      b) Overloading                      c) Constructors                      d) None of these
- 8) ..... keyword refers the current instance of an object.  
a) This                      b) Me                      c) Myclass                      d) None of these
- 9) ..... is used to join strings in VB.  
a) +                      b) &                      c) Both a&b                      d) None of these
- 10) ..... function is used to display current date &time in VB.  
a) Now()                      b) Time()                      c) Date()                      d) None of these
- 11) In VB, the ..... is the primary component of every GUI application.  
a) Controls                      b) Frame                      c) Form                      d) None of these
- 12) Which operator has the highest order of precedence in arithmetic expressions?  
a) Multiplication                      b) Addition                      c) Exponentiation                      d) Modulus
- 13) The code that is used in a sub procedure to stop execution of a sub procedure is  
a) Exit                      b) End With                      c) End                      d) End Sub
- 14) 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
- 15) The point where the cost of the candidate system and that of the existing system are equal is called .....  
a) Least Cost Point                      b) Optimum Point                      c) Break Even Point                      d) Optional Point

**Part - II Fill in the blanks (Any ten)****(10 x 1 Mark = 10 Marks)**

- 16) Each **while** loop must be terminated by .....
- 17) ..... statements are used to declare variables.
- 18) .....control raises an event at regular intervals.

- 19) The null value can be checked using .....function
- 20) .....function returns the string converted to lower-case.
- 21) The .....function returns the length of a string.
- 22) The ..... function can be used to check whether the value is numeric or not.
- 23) ..... loop always execute atleast once.
- 24) .....control indicates the progress of a process.
- 25) Classes derived from base classes are called.....
- 26) To save the current record to a database .....method is used.
- 27) By default, all VB graphic measurements are in .....
- 28) Each if statement must be terminated by .....statement
- 29) .....function is used as conditional operator in VB.NET.
- 30) .....is a flag at a given point in code, where program execution will be suspended.

**Part - III State whether true or false**

**(10 x 1 Mark = 10 Marks)**

- 31) In VB, we can declare variables Explicitly only
- 32) Boolean is not a data type in VB
- 33) In VB, Subroutines can return a value
- 34) Visual Indicators or special graphical elements are called widgets.
- 35) SOAP is the .NET protocol.
- 36) Common Language Runtime is the heart of .NET frame work.
- 37) Inheritance cannot extend the base class functionality.
- 38) A Dataset can hold any number of tables
- 39) Trim () is used to remove the space from both side of string.
- 40) To hide a control, visible property is set to false.

**Part - IV Give expansion for the following (Any ten)**

**(10 x 1 Mark = 10 Marks)**

- 41) OLE
- 42) DML
- 43) BCNF
- 44) IDE
- 45) DLL
- 46) DBMS
- 47) SQL
- 48) MDI
- 49) ADO
- 50) SDLC
- 51) RAD
- 52) ADO
- 53) COM
- 54) JIT
- 55) SOAP

**Part - V Answer the following (Any Eleven)**

**(11 x 5 Marks = 55 Marks)**

- 56) Any **five** string functions in VB.
- 57) Write a VB program to print numbers from 1 to 100 using **for** loop.
- 58) Difference between Gotfocus and Lostfocus.
- 59) Name and briefly explain any **five** mouse events.
- 60) Explain Cost-Benefit evaluation methods.

- 61) Write down the syntax of **Do** loops and **Do While** loops with example.
- 62) Write a program to input 3 numbers from 3 text boxes and to print the biggest number in the 4<sup>th</sup> textbox.
- 63) Briefly explain System Design objectives.
- 64) Explain the steps for creating a Menu.
- 65) Write a program to find the factorial of a number less than 10.
- 66) Differentiate between Message Box and Input Box.
- 67) Explain in detail about System Development Life Cycle.
- 68) The structure and data of a table named '**Product**' is given below. (**Answer any five questions**)

ProductID	ProductName	Price	Tax
1200	Apple	75	5%
1201	Orange	65	3%
1202	Pineapple	80	5%
1203	Banana	50	2%
1204	Plum	85	5%
1205	Strawberry	120	3%
1206	Cherry	110	6%
1207	Mango	85	8%
1208	Papaya	55	5%
1209	Broccoli	65	2%

The structure and a few rows of a data table are shown above.

Write SQL Queries for

- a) To add a new record (assume suitable values)
  - b) To delete the record with ProductID=1202
  - c) List all products having tax of 5%
  - d) To revise the price of product having ProductID 1203 to 63
  - e) Count the number of products having tax 5%
  - f) To list product names in alphabetical order.
  - g) To change all ProductName to UPPER CASE.
  - h) To add one more column named **ID** as Primary Key and make it Auto-increment
- 69) Write the VB.NET code to add new records to an existing table named '**Product**' in a Database named '**Shop**'. The data to be inserted is obtained from a Form as shown in the picture .

**Add Record**

**Product Name**

**Price**

**Tax**