

[Established by Govt. of Kerala]

System Engineering, VB & VB.NET

(DCA [New])

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) Legal return values for the MsgBox function are
 - a) vbOK
 - b) vbCancel
 - c) vbAbort
 - d) All of these
- 2) function is used to display current date & time in VB.
 - a) Date()
 - b) Time()
 - c) Now()
 - d) None of these
- 3) Which of the following is the correct default value of a Boolean type?
 - a) 0
 - b) 1
 - c) True
 - d) False
- 4) 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) Overriding
 - d) Polymorphism
- 5) Which of the following is/are NOT arithmetic operators in VB?
 - a) **
 - b) ^
 - c) /
 - d) mod
- 6) In VB, is the primary component of every GUI application.
 - a) Controls
 - b) Frame
 - c) Form
 - d) None of these
- 7) Beyond the Break Even Point, the..... system provides greater benefits.
 - a) Candidate System
 - b) Existing System
 - c) Current System
 - d) None of these
- 8) window lists all the forms which make up the VB project.
 - a) Property
 - b) Tool box
 - c) Project
 - d) Coding
- 9) Which of the following is the correct way to obtain the number of elements in the array given below?


```
Dim a() as integer={25,30,45,15,60}
```

 - a) a.getmax
 - b) a.highest(0)
 - c) a.max(0)
 - d) a.length
- 10) will make program to exit Do Loop.
 - a) Exit Do
 - b) ExitDo
 - c) Exit
 - d) ExitLoop
- 11) Testing a system in the actual environment using real data is called.....
 - a) Beta Testing
 - b) Alpha Testing
 - c) Series Testing
 - d) Stub Testing
- 12) The VB filenames have.....extension.
 - a) **.VBP**
 - b) **.vb**
 - c) **.vbr**
 - d) None of these
- 13)decisions follow a set of organization-formulated rules and regulations.
 - a) Structured
 - b) Semi Structured
 - c) Unstructured
 - d) None of these
- 14) Program syntax for select case is.....
 - a) CASE "A" :
 - b) CASE A
 - c) CASE "A"
 - d) CASE =A
- 15) Which of the following does not denote a data type in VB.Net?
 - a) Decimal
 - b) Byte
 - c) Boolean
 - d) None of these

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

- 16) is a formal document that summarizes findings and recommendations on the proposed system.
- 17) To save the current record to a database method is used.
- 18) Horizontal bar chart is sometimes called a chart.

- 19) To move from the current record to the first record in the recordset method is used.
- 20) A is a flag at a given point of code, where program execution will be suspended.
- 21) The property of a table type recordset provides the number of records in the table.
- 22) control enables the user to select a single option from a group of choices.
- 23) Theproperty of the Command Button determines the text to display on the face of the button.
- 24) function returns the string converted to lower-case.
- 25) In VB.Net, textbox enables to accept data in a specific format like date, time, currency etc.
- 26) is the ability to contain and control access to a group of associated items.
- 27) The null value can be checked using function.
- 28) By default, all VB graphic measurements are in
- 29)property of ListBox enables multiple selection.
- 30) is the syntax for hiding a form.

Part - III State whether true or false

(10 x 1 Mark = 10 Marks)

- 31) The Form Layout Window determines the initial position of forms.
- 32) VB is an event driven model of programming.
- 33) VB variable names can have a maximum of 255 characters.
- 34) Open system is one which interacts with its natural environment.
- 35) VB does not support OLE concept.
- 36) Picture box is like a label with a picture in it instead of text.
- 37) The DBGrid control is an ActiveX Control.
- 38) Array is an indexed variable.
- 39) The combo box is a combination of list box and label box.
- 40) Library files save with the extension as .dll.

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

(10 x 1 Mark = 10 Marks)

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

Part - V Answer the following (Any Eleven)

(11 x 5 Marks = 55 Marks)

- 56) Explain the Waterfall model for System life cycle.
- 57) Explain System design objectives.
- 58) Explain system analysis.

- 59) Explain types of systems.
- 60) Explain management information system.
- 61) Explain system development life cycle.
- 62) Explain logical operators with example.
- 63) Explain the important properties of Data Control.
- 64) Distinguish between ByRef and ByVal.
- 65) Explain three loop structures with examples.
- 66) Explain any five events.
- 67) Describe the difference between Overloading and Overriding.
- 68) Explain any five string functions.
- 69) Differentiate between Class and Object.
- 70) What are the key design goals of CLR?
- 71) Write a VB program to find the factorial of a given number.
- 72) Write a VB program to check whether the given number is prime or not.
- 73) Explain anomalies in database.
- 74) Write a program to store the details entered in a form as shown below to an existing table named **'studdata'** contained in the database named **'student'**. (Choose appropriate data type for each field)



The image shows a screenshot of a Windows application window titled "Addrecord". The window has a blue title bar with standard minimize, maximize, and close buttons. The main area of the window is a form with a dotted grid background. The form contains five text input fields, each with a label to its left: "Date and Time", "Name", "Number", "Subject", and "Marks". Below these fields is a button labeled "Add new record".