

## **VB & VB.NET**

### **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 and conduct the Model examination during 27/01/2009 to 31/01/09**

### **I Fill in the blanks**

- ❖ Variable names in VB can have a maximum of ----characters.
- ❖ To declare a variable ----- statement must be used.
- ❖ Each while loop must be terminated by.....
- ❖ The null value can be checked using.....function
- ❖ To save the current record to a database -----method is used.
- ❖ The -----function can be used to check whether the value is numeric or not.
- ❖ By default, all VB graphic measurements are in -----
- ❖ The \_\_\_\_ property of a command button, if set to true, means that the button can be activated by hitting the <Enter> key.
- ❖ Users interact with applications primarily using \_\_\_\_\_ on the form.
- ❖ -----shortcut key is used to run the VB program.
- ❖ In VB.NET the \_\_\_\_\_ control is used to display graphics in bitmaps or JPEG.
- ❖ ----- represents shortcut menus, that are displayed when the user clicks the right mouse button over a control or area of the form.
- ❖ -----is the Dot Net protocol.
- ❖ Classes derived from base classes are called-----
- ❖ ----- is the technique for intercepting errors that can occur at the execution rather than programming mistakes.
- ❖ ----- is the ability to contain and control access to a group of associated items.
- ❖ -----is the structured exception handling.

### **II Give expansion for the following**

- ❖ IDE
- ❖ INF
- ❖ JIT
- ❖ BCNF
- ❖ MSIL
- ❖ DBMS
- ❖ RAD
- ❖ MSDN
- ❖ CLR
- ❖ DAO
- ❖ ISAM
- ❖ COM
- ❖ SQL
- ❖ ODBC
- ❖ API
- ❖ MDI
- ❖ DDL
- ❖ DML
- ❖ DDE
- ❖ OLE

- ❖ DLL
- ❖ EOF
- ❖ ADO
- ❖ SOAP
- ❖ GUID

### III True or False

- ❖ Visual Basic is an Event Driven Programming Language.
- ❖ In VB we can declare variables Explicitly only
- ❖ Boolean is not a data type used in VB
- ❖ LCase(string) function returns string converted to lower-case.
- ❖ In VB.NET the connection object creates the connection to the database.
- ❖ The property window is used to view and change the design time properties
- ❖ A 'Stack' Collection provides 'first-in-first-out' functionality:
- ❖ A 'Queue' Collection provides 'first-in-first-out' functionality:
- ❖ A DataSet can hold any number of tables
- ❖ In msgbox the value of VB OK is 1
- ❖ Trim() is used to remove the space from both side of string.
- ❖ To hide a control visible property is set to false.
- ❖ Byte is not a data type in VB.
- ❖ Equality operator is denoted by! = sign.
- ❖ Left (string, number) returns the length of string, the number of characters it contains.

### IV Choose the right answers following

- ❖ A \_\_\_\_\_ form is the first interface that appears on the screen, when an application is executed.  
(a) Startup Form      (b) Active Form      (c) Main Form      (d) None of the above
- ❖ \_\_\_\_\_ are the back bone of SQL.  
(a) Database      (b) Queries      (c) Functions (d) None of the above
- ❖ Visual Basic is an enhanced version of \_\_\_\_\_ programming language  
(a) BCPL      (b) BASIC      (c) COBOL      (d) None of the above
- ❖ While creating a menu using a menu editor we can use a \_\_\_\_ symbol to make hotkey character  
(a) \_      (b) \*      (c) @      (d) &
- ❖ \_\_\_\_ window lists of all the forms which make up your VB project  
(a) Property      (b) Tool box      (c) Project      (d) Coding
- ❖ JIT (in .NET) stands for.  
a. Just in Time    b. Job in Transit      c. Java Intermediate Translation
- ❖ The Visual Basic Compiler is:  
a. vbcompiler.exe      b. vb.exe      c. vbc.exe
- ❖ Classes from which namespace will have to be used to read or write to a file?  
a. System.IO    b. System.FileObjects      c)System.
- ❖ ----- keyword refers the current instance of an object  
a.This    b. Me    c. Myclass
- ❖ -----is used to join strings in VB.NET  
a. +    b. &    c. Both A&B
- ❖ VB.NET default value for Boolean variable is -----  
a True    b. False    c. Nothing
- ❖ -----is the lower bound value of array in VB.NET  
a. 1      b. -1      c. 0
- ❖ VbOk,VbCancel,VbAbort are all the enumerated members of -----  
a. MsgBoxStyle Enumeration  
b. MsgBoxResult Enumeration  
c. CompareMethod Enumeration
- ❖ Which of the following is a valid statement

- a. I = Integer.Parse(S) ' where I is an integer and S is a string
- b. I = Parse(S) ' where I is an integer and S is a string
- c. S = Parse(I) 'where I is an integer and S is a string
- ❖ Which of the following are the valid method of command object
  - a. ExecuteNonQuery & ExecuteScalar    b. ExecuteQuery & ExecuteScalar
  - c. ExecuteParameter
- ❖ Which of the following does not denote a data type in VB.Net?
  - a. Decimal    b. Byte    c. Boolean    d. None of the Above
- ❖ In VB.NET parameters are -----by default
  - a. passed by value    b. passed by reference    c. Both A) and B)
- ❖ Which of the following when turned on do not allow incompatible type conversion?
  - a. Option Explicit    b. Option Strict    c. Option All
- ❖ Which of the following notation is used to expand a single statement on to multiple lines in VB.NET?
  - a. \_(underscore)    b. &    c. :    d. #
- ❖ \_\_\_\_\_ is the shortcut for the menu editor.
  - a) ctrl+C b) ctrl+E c) ctrl+D    d) ctrl+T
- ❖ -----function is used to display current date &time
  - a) now() b) time() c) date() d) none of these
- ❖ \_\_\_\_\_ is the maximum value of scroll bar.
  - a) 0    b) 120    c) -32767    d) 32767
- ❖ ----- is one logical section of a file that holds a related set of data.
  - (a) Record    (b) Field    (c) I/O    (d) Binary file
- ❖ The ----- is used to view and change the design time properties and events of selected objects that are located in editors and designers.
  - (a) ObjectName    (b) Property Window    (c) Controls    (d) Forms
- ❖ ----- function returns the number of characters specified by a number from the right end of string.
  - (a) InStr (string1, string2)    (b) UCase(string)    (c) Right(string,number)    (d) Len (string)

## V Answer the followings

- ❖ Explain different type of database connection in ADO.NET.
- ❖ Operators in VB.net
- ❖ Difference between Gotfocus and Lostfocus.
- ❖ Explain the properties of normalized relations
- ❖ Key design goals of common language runtime (CLR).
- ❖ Explain any three mouse events in vb.
- ❖ Mention the rules for declaring variable names in VB.
- ❖ Dot Net Framework.
- ❖ Draw the diagram of CLR.
- ❖ What are the exit statements in VB.NET (Exit Select, Exit Try, Exit While Exit Do, Exit For)
- ❖ What is Class? and Difference between Class and Object.
- ❖ Define Encapsulation.
- ❖ Define polymorphism
- ❖ Difference between a local and a global variable?
- ❖ Define DDL and DML.
- ❖ Explain the need of Normalization.
- ❖ What is an Event
- ❖ What is ADO.NET?
- ❖ Explain the Core Objects of DOT Net Framework Data Provider.
- ❖ What is a primary key?
- ❖ What is a secondary key?
- ❖ What is a candidate key?
- ❖ What is an alternate key?
- ❖ What is a super key?
- ❖ What is a composite key?
- ❖ What are the features of SQL?

- ❖ Difference between Function and Stored Procedure?
- ❖ Write down the syntax of **Do loops** and **Do While** loops?
- ❖ Define the following terms.  
(a) Record (b) Field (c) Sequential file (d) Random file
- ❖ Write a note on event driven programming.
- ❖ Explain any four string functions?
- ❖ Write down the syntax of **For....Next** loop and explain with an example to print even number less than 20.
- ❖ Write a note on a Label and Textbox control with any two properties each.
- ❖ Write a note on Code window, Property window, Project explorer window and solution explorer window.

## VI SQL

Read the table and answer the following questions

Product ID	Product Name	Price	Tax
1001	Biscuit	300	4%
1002	Pizza	200	12%
1003	Biscuit	300	4%

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

Write SQL Queries for

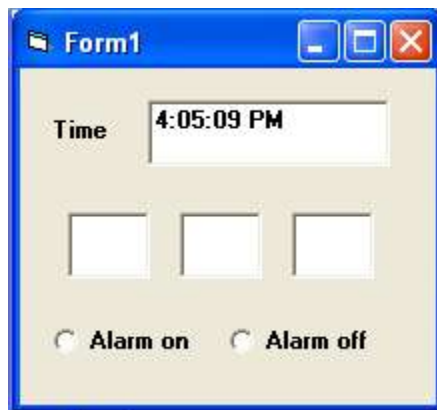
- a) To add a new record (assume suitable values)
- b) To delete one record
- c) List the products having tax of 4%
- d) To revise the price of products having product Id to 1002
- e) Count the number of products having tax 4%

**VII** 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'.

*Design*

**VIII** Write a VB.Net Program for the functions of an Alarm Clock

*Design*



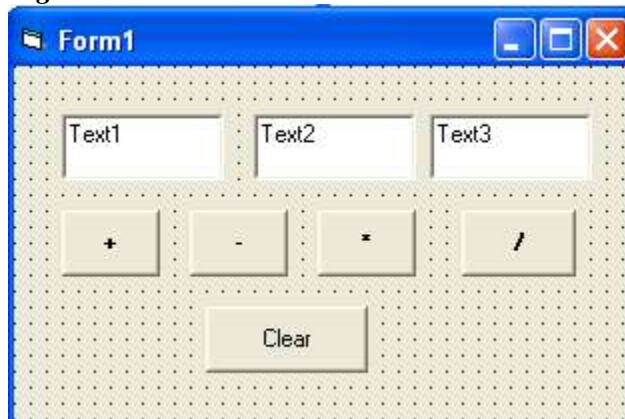
The screenshot shows a Windows form titled 'Form1' with a blue title bar. The form has a light beige background. At the top left, the word 'Time' is followed by a text box containing '4:05:09 PM'. Below this, there are three empty square boxes arranged horizontally. At the bottom, there are two radio buttons: the first is labeled 'Alarm on' and is selected, and the second is labeled 'Alarm off'.

**IX** Write a VB program to create basic calculator.

In the below diagram,

Text1 represents the first number to be entered, Text2 represents the second number to be entered, Text3 displays the result of the above two text, code must be written for addition, subtraction, multiplication, division and clear button.

*Design*



The screenshot shows a Windows form titled 'Form1' with a blue title bar. The form has a light beige background with a dotted grid. At the top, there are three text boxes labeled 'Text1', 'Text2', and 'Text3'. Below 'Text1' and 'Text2' are four buttons with the symbols '+', '-', '\*', and '/'. Below these four buttons is a single button labeled 'Clear'.