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 with the questions from this Question Bank.**

Part - I Choose the correct answer   **1 mark each**

- Visual basic comment starts with ………………..
  a) //   b) /*   c) *   d) '
- ………………. will make program to exit Do Loop
  a) Exit Do   b) ExitDo   c) Exit   d) ExitLoop
- Program syntax for select case is………………..
  a) CASE "A" :   b) CASE A   c) CASE "A"   d)All the above
- Which is not a legal return value for MsgBox?
  a) vbOK   b) vbCancel   c) vbExit   d) vbAbort
- …………………. function is used to display current date &time in VB.

  a) now()   b) time()   c) date()   d) none of these
- While creating a menu using a menu editor we can use a ……………. symbol to make hotkey character

  (a) #   (b) *   (c) @   (d) &
- A……………form is the first interface that appears on the screen, when an application is executed.

  a. Startup   b. Active   c. Main   d. Primary
- 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
- The execution environment for all programs in the .NET Framework is …………………
  a) CLS   b) RMT   c) CLR   d) none of these
- In VB, _____ is the primary component of every GUI application.

    (a) Controls   (b) Frame   (c) Form   (d) None of the above
- In VB, variable name must be less than _____ characters.

    (a) 32,767   (b) 255   (c) 124   (d) No limit.
- The Button control can also display images using _____ property.

    (a)Text   (b)   Image   (c) Font   (d) None of the above.
- A _____ consists of a collection of interrelated data and a set of programs to access the data.

    (a)DBMS   (b) SQL Server   (c) ADO   (d) None of the above
- _____ function is used as conditional operator in VB.NET.

    (a)()?:   (b) if()   (c) IIf()   (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
- When we want to group several controls together we use a ____

    (a) Form   (b) Frame   (c) Combobox   (d) List Box
- ____window lists all the forms which make up the VB project

    (a) Property   (b) Tool box   (c) Project   (d) Coding

- Visual Basic is _____ type of programming language.
  a. event driven   b. object oriented   c. menu driven d. none of these
- The VB filenames have_____ extension
  a. **.VBP**   b. **.vb**   c. **.vbr**   d. none of these
- _____ are the graphical objects that make up the application's user interface.
  a. Controls   b. Frame   c. Form   d. None of the above
- Which of the following can be called by reference?
  a. Class   b. Module   c. Function   d. Assembly
❖ _____ are the back bone of SQL.
(a) Database   (b) Queries   (c) Functions (d) None of the above
❖ The Visual Basic Compiler is:
  a. vbcompiler.exe   b. vb.exe   c. vbc.exe
❖ --------- 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) none of these
❖ ---------is the lower bound value of array in VB.NET
  a. 1   b. -1   c. 0   d) none of these
❖ VbOk,VbCancel,VbAbort are the enumerated members of ---------
  a. MsgboxStyle Enumeration
  b. MsgboxResult Enumeration
  c. CompareMethod Enumeration
  d) none of these
❖ Which of the following is 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
❖ 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 menu editor in VB.
  a) ctrl+C b) ctrl+E c) ctrl+D   d) ctrl+T
❖ ----------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)

Part - II Fill in the blanks   1 mark each

- ……………. window contains the list of all forms which make up the VB project
  Ans: project
- The project file extension for VB6 is…………..
  Ans: **.**VBP
- The storage size for the data type integer is …………..bytes
  Ans: 2
- The …………….operator takes two or more boolean expressions and returns true value, if both expressions are true
  Ans: conjunction
- The statement used to exit the DO loop is………….
  Ans: exit do
- The statement used to exit the For-Next loop is……………….
  Ans: exit for
- Parameters are also called as………….
  Ans: arguments
- IDE stands for……………………..
  Ans: integrated development environment
- In Visual Basic, ……….is the primary component of every GUI application.
  Ans: form
- The ………… identifier in VB is similar to "**this**" identifier in C and JAVA

Ans: me
- …………… function returns the string converted to lower-case.
  Ans: LCase(string)
- ……………. is a part of record that defines a specific information.
  Ans: field
- …………is a file where all the information is written in the order, beginning to end
  Ans: sequential file
- The …….function determines if the end of the specified file has been reached.
  Ans: Eof()
- ADO stands for…………
  Ans: ActiveX data objects.
- Event-driven programming is often termed as ……………programming.
  Ans: unstructured
- …………………… is used to display static text, titles and screen output from operations.
  Ans: label
- A …………..is a flag at a given point in code, where program execution will be suspended.
  Ans: break point
- The …….. function returns the length of a string.
  Ans: Len(string)
- In VB.Net, the …………… statement always check the condition before it begins the loop.
  Ans: while
- In VB.Net, the declaration statement for variables is the …………… statement.
  Ans: Dim
- In VB.Net, …………… control allows to add web-style links to windows forms application.
  Ans: Linklabel
- In VB.Net, …………..textbox enables to accept data in a specific format like date, time, currency etc.
  Ans: masked
- In VB.Net, …………. is a component that raises an event at regular intervals in the windows form.
  Ans: timer
- In VB.Net, …………… component displays text when the user points at controls.
  Ans: tool tip
- In VB.Net, ………….. control provides a managed wrapper for the web browser ActiveX control.
  Ans: web browser
- In VB.Net, …………… controls are used to provide an identifiable grouping for other controls.
  Ans: group box
- DLL stands for ……………….
  Ans: dynamic link library
- ………………. is the ability to contain and control access to a group of associated items.
  Ans: encapsulation
- …………. is a program at the application level, not tied to any specific event.
  Ans: module
- The high level language provided by DBMS is called ………………..
  Ans: data definition language
- Data Manipulation Language is also called ………………..
  Ans: query language
- A …………. is a statement in the DML that request the retrieval of data from the database.
  Ans: query
- An entity set that does not have sufficient attributes to form a primary key is known as ………………
  Ans: weak entity
- In DBMS, …………… is a pool of values from which the actual values appearing in a given column are drawn.
  Ans: domain

- ……………… are the backbone of SQL.
  Ans: queries

- The ……………… function can be used to check whether the value is numeric or not.
- In VB, each while loop must be terminated by ……………..
- The null value can be checked using …………….function
- VB variable names can have a maximum of …………….characters.
- Long datatype is ……………….. bytes long.
- ……………… property of DataGridView control is set to specify the data source.
- _____ method is used to add items to the ListBox.
- In VB.NET the _____ control is used to display graphics in bitmaps, GIF or JPEG.
- Structured exception handling is_____.
- _____ control raises an event at regular intervals.
- The output of the following program is _____.
  ```
  cnt =9, x=10, y=20
   do
      If cnt>=8 then
          exit do
      else
         z=x+y
      end if
  loop
  ```
- _____ is the short cut key for running a program in VB.NET.
- Classes derived from base class are called_____.
- The output of the following program is _____.
  string1="It was the best of times"
  string2="We were kids them"
  string3= Mid (string1, 10, 5) & Mid (string2, 5, 5)
- ❖ To declare a variable --------- statement must be used.
- ❖ To save the current record to a database ----------method is used.
- ❖ By default, all VB graphic measurements are in ---------
- ❖ ---------is the Dot Net protocol.

II Give expansion for the following   1 mark each

- ❖ IDE
- ❖ 1NF
- ❖ JIT
- ❖ BCNF
- ❖ MSIL
- ❖ DBMS
- ❖ RAD
- ❖ MSDN
- ❖ CLR
- ❖ DAO
- ❖ ISAM
- ❖ COM
- ❖ SQL
- ❖ ODBC
- ❖ API
- ❖ MDI
- ❖ DDL
- ❖ DML
- ❖ DDE
- ❖ OLE
- ❖ DLL
- ❖ EOF
- ❖ ADO

- ❖ SOAP
- ❖ GUID

PART-II **State whether true or false** **1 mark each**
- The picture box control and image control are very similar in operation.-----------
- Visual Basic allows to manage databases created with different database program.-------T
- ADO can work in different computers and different programming languages.--------T
- Parameters cannot be sent to a subroutine By reference or By value.---------F
- Events cannot be initiated by the user.-----------F
- An array is an indexed variable.----------------T
- Subquery cannot be performed inside an existing query.-------- F
- In DBMS, the basic objective of normalization is to reduce redundancy.--------T
- Database does not facilitate sharing of data.---- F
- A module is similar to a class, but with some important distinctions.---------- T
- Visual Basic classes cannot inherit and extend the characteristics of other classes.
- In VB.Net, the appearance of tabs in windows forms can be changed using properties of tab control and tab page objects.----- T
- The key method of Timer component is start and stop.----------- T
- Classes are symbolic representation of objects.-------- T

- Visual Basic is an Event Driven Programming Language.

- In VB we can declare variables Explicitly only

- Boolean is not a data type in VB

- In VB, Subroutines can return a value

- Parameters, also called Arguments, are variables that can be passed into a subroutine.

- The property window is used to view and change the design time properties

- Form load is a Subroutine.
- JIT stands for justify in time.
- Visual Indicators or special graphical elements are called widgets.
- A function cannot be called from a subroutine.
- SOAP is the .NET protocol.
- Common Language Runtime is the heart of .NET frame work.
- Inheritance cannot extend the base class functionality.
- A procedure can never return a value.
- LCase(string) function returns string converted to lower-case.
- In VB.NET the connection object creates the connection to the database.
- 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.
-

Part - IV Write short notes on **4 marks each**

- Anomalies in database.
- Namespaces.
- Modules in VB.NET.
- Write a VB program to print numbers from 1 to 100 using for loop.

Part - V Answer the following   5 marks each

- Explain the Core Objects of DOT Net Framework Data Provider.
    - ❖ Explain different type of database connection in ADO.NET.
    - ❖ Operators in VB.net
    - ❖ Difference between Gotfocus and Lostfocus.
    - ❖ Key design goals of common language runtime (CLR).
    - ❖ Explain any three mouse events in vb.
    - ❖ Mention the rules for declaring variable names in VB.
    - ❖ Define Encapsulation.
    - ❖ Define polymorphism
    - ❖ Difference between a local and a global variable?
    - ❖ Define DDL and DML.
    - ❖ Explain the need of Normalization.
    - ❖ What is ADO.NET?
    - ❖ 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?
    - ❖ Define the following terms.
        (a) Record   (b) Field   (c) Sequential file   (d) Random file
    - ❖ Explain any four string functions?
- What is Class? Differentiate between Class and Object.
- Write down the syntax of **Do loops** and **Do While** loops with example.
- Write a VB program to illustrate **error trapping**.
- In a form, command button **CmdNext** is used to move to the next record in the database when the button is clicked. Write the code for this button. Add lines of code to prevent moving beyond the last record in the database table(table name
-    isstudRec)
  Define 'Form' and steps to add a new Form in your project.
- 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 VB.NET application for input 3 numbers through text box and find biggest number using IF().
- Write a note on Code window, Property window, Project explorer window and solution explorer window.
- Write a VB.NET program to display records through DataGridView control. (Data base name 'SudentDb', Table name 'StudentRec').
- Write program code to navigate (Move to first, last, next and previous of record set) across a data control (Name: data1).
- Write a program to accept two numbers through text box and perform the basic mathematical operations.
- Write notes on procedure and functions with syntax.
- Describe Windows Form and Web Form.
- Write a note on Event Driven programming.
- Draw the diagram of Microsoft.Net Framework.
- Describe the difference between Overloading and Overriding.
- Define Indexed Variables.
- Explain the difference between Byref and Byval.

- Explain the different types of files in VB.NET.

- Describe the difference between inner join and outer join with suitable examples.

- Explain Key Design Goals for .NET frame work

- Distinguish between EXIT statement and END statement

- Read the table given below and answer the following questions

No	Name	Designation	Sale	Price
1	John	Manager	DOG	250
2	Amal	Clerk	CAT	300
3	Ali	Manager	HOTDOG	230

Write Queries
   a. to add one record.
   b. to delete the second record.
   c. to select names in ascending order.
   d. to change the name in the third record to 'Alibaba'.

- Explain core object of .NET frame work data provider.

Part - VI Answer the following   6 marks each

- Read the table and answer **any six** of the following questions

ProductID	ProductName	Price	Tax
1200	Apple	75	5%
1201	Orange	65	3%
1202	Apple	75	5%
1203	Banana	50	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 change the product name in the second record to 'Grape'.
   g) To select product names in ascending order.
   h) To change all ProductName to UPPER CASE.
   i) To add one more column named **ID** as Primary Key and make it Auto-increment

- Explain the various levels of Database implementation.
- Write a program to find the factorial of a number.
- Explain any three loop structures with examples.
- Explain any five events in VB.NET.
- Explain the steps for creating a Menu.
- Write the VB.NET code to add new records to an existing table named '**Empdata**' in a Database named '**Employee**'.The data to be inserted is obtained from a Form as shown in the picture on the right.

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