Seat No.: _____   *Enrolment No.*_____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. Sem. - V - Examination – June- 2011
Subject code: 150706
Subject Name: Visual Basics Application and Programming

Date:30/06/2011   **Time: 10:30 am – 01:00 pm**
                                                       Total Marks: 70

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	**(1)**	What is VBA? List various tasks which can be performed by VBA.	**04**
		(2)	What is macro? Explain different limitations of macros.	**03**
	(b)	**(1)**	Explain Macro Viruses in detail.	**04**
		(2)	What is menu? What is difference between shortcut key and keyboards access key?	**03**

Q.2 **(a)** **(1)** Explain following :   **05**
[i]   On Error Go To Label
[ii] On Error Go To 0
[iii] Resume Label
[iv] Resume Next
[v] exit sub

(2) State and explain the situation where "Exit for" statement should be used.   **02**

(b) **(1)** What is intellisense? Explain TWO intellisense features provided by VBA with example.   **04**

(2) Explain with example ::   **03**
[i] compile time error
[ii] run time error

OR

(b) **(1)** List various mouse events. Explain drag over and drag drop event in detail.   **04**

(2) What is debugging? State the difference between "step into" and "step over" statements.   **03**

Q.3 **(a)** **(1)** VBA is not a true object oriented programming language- justify. Also Explain following OOP properties in detail: **05**
[i]   encapsulation
[ii] polymorphism
[iii] inheritance

(2) What is keyboard Access key? How key board access key can be assigned, state with example.   **02**

(b) **(1)** State Use of following properties of stated controls :   **05**
[i] Passwordchar property of textbox
[ii] default property of command button
[iii]Style property of option button
[iv] multiselect property of listbox
[v] listindex property of listbox

(2) Define : **02**
    [i] Private variables
    [ii] static variables

<div align="center">OR</div>

Q.3 **(a)** **(1)** Define variable. State naming rules of identifiers/variables. **04**

      (2) What is use of "with…end with" statement? State appropriate example of same. **03**

    (b) **(1)** Explain following reasons which triggers an event in VBA: **04**
          [i] User interaction
          [ii] Object event
          [iii] Operating system
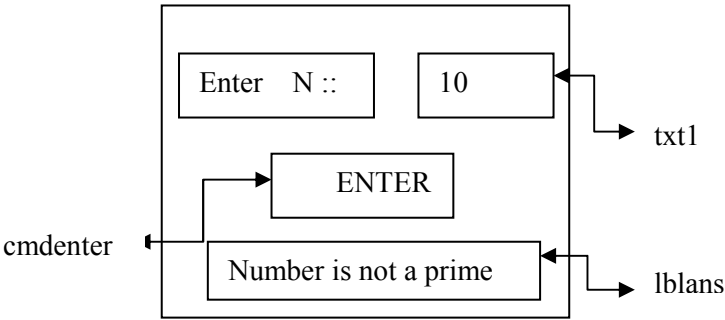   [iv] Programming events

      (2) Define – dynamic array. How we can declare an array as dynamic array? **03**

Q.4 **(a)** Consider the following application , where user enters value of N in textbox- "txt1", and on click event of command button -"cmdenter", label – "lblans" displays whether N is prime number or not. **07**

Write your code for cmdenter – command button's click event, which checks whether value entered in txt1- textbox is Prime number or not and displays answer in lblans – label.

```
Private Sub cmdenter_click()
' write your code here
End Sub
```

    (b) **(1)** Explain need of adding ActiveX control. Also discuss how ActiveX created once can be used in different projects. **05**

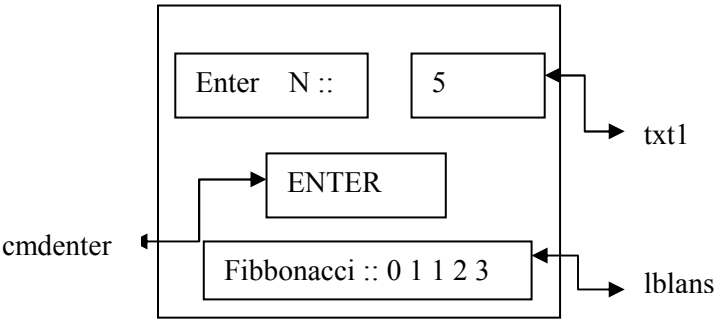   **(2)** What is difference between sub procedure and event procedure? **02**

<div align="center">OR</div>

Q.4 **(a)** Consider the following application, where user enters value of N In textbox- "txt1", and on click event of command button -"cmdenter", label – "lblans" displays Fibbonacci series till N terms. **07**

Write your code for cmdenter – command button's click event, which generates fibbonacci series till N and Displays answer in lblans – label.

Private Sub cmdenter_click()
' write your code here
End Sub

(b)	**(1)**	State steps for creating ActiveX Control.	**05**
	(2)	What is difference between sub procedure and function?	**02**

Q.5 **(a)** **(1)** Define following: **04**
[i] Database Management system
[ii] Primary key
[iii]Query
[iv] Foreign Key

(2) State use of message box and input box . **03**

(b) **(1)** What is difference between arguments "pass by value" and "pass by reference" to procedure ? **04**

(2) Explain Object Browser. **03**

OR

Q.5 **(a)** **(1)** State Use of following properties of stated controls : **04**
[i]   connect property of Data control
[ii] recordsource property of Data control
[iii] data source property of text box
[iv] data field property of text box

(2) What is common dialog box? List all common dialog boxes. **03**

(b) **(1)** Explain Err Object in detail. **05**

(2) What is digital signature in context of Macro? **02**

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