# 2012
# COMPUTER PROGRAMING

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

## GROUP – A
### ( Multiple Choice Type Questions )

1. Choose the correct alternatives of the following :

    $10 \times 1 = 10$

    i)   Which of the following is not the property of TextBox ?

    a)   List count
    b)   Multiline

    c)   Scroll Bar
    d)   Max length.

    ii)  Which of the following is not a valid data type ?

    a)   Integer
    b)   Float

    c)   Char
    d)   Variable.

    iii) The 'event' that occurs when a form gets the focus is

    a)   GotFocus
    b)   Activate

    c)   Initialize
    d)   Load.

iv) Visual Basic is ............... interface .

    a)    back-end        b)    front-end

    c)    both of these        d)    none of these.

v) The ............... control is called collection or group of other controls.

    a)    shape        b)    data

    c)    line        d)    none of these.

vi) The ............... function is used to print data in a form.

    a)    show        b)    echo

    c)    print        d)    all of these.

vii) VB variables are ............... by default.

    a)    Integer        b)    String

    c)    Short        d)    Variant.

viii) What will be the result of the following expression 5 Mod 100 ?

    a)    An error        b)    5

    c)    0        d)    20.

ix) The default lower index of an array is

    a)    2        b)    1

    c)    0        d)    none of these.

x) ADO is a/an

    a)    method        b)    object model

    c)    inbuilt function        d)    all of these.

## GROUP – B

### ( Short Answer Type Questions )

Answer any *three* of the following.       3 × 5 = 15

2. Explain different scopes in Visual Basic.

3. Write an application program in VB to print the Fibonacci numbers up to 50.

4. What is the difference between call by Value and Call by Reference ? Explain with the help of example.

5. What is Event Programming ? Differentiate between Procedural Programming and Object Oriented programming.

6. Distinguish between the following :

   a) Image and picture box control

   b) Radio buttons and check box.

## GROUP – C

### ( Long Answer Type Questions )

Answer any *three* of the following.       3 × 15 = 45

7. a) What is an IDE ? Write the functions of FOCUS.

   b) What is a loop ? Explain all the loops provided by VB.

   c) What is a Mid () function ? Explain with example.

   6 + 6 + 3

8. a) What is the difference between fixed size array and dynamic array ? Explain with example each type of array. *Why the keyword 'Preserve' used in dynamic array ?*

   b) Write a program to sort 10 numbers in ascending order and display them.

   c) Write the difference between function and procedure with example. What is the use of optional argument ?

   6 + 5 + 4

9.  a)   What is file ? Explain briefly Sequential file and Random Access File.

    b)   Within a sequential data file, what is the difference between the Print # and Write # statements ?

    c)   'VB is an object oriented language.' Explain. Why is it known as an Event driven programming language ?

                                                                    6 + 3 + 6

10. a)   Write a select case statement in VB with an example.

    b)   Write a VB program that checks whether a year is leap year or not.

    c)   What function can be used to convert the lowercase letters to uppercase letters and vice-versa ?

    d)   What is a variant ? Describe the Trim() function.

                                                                    3 + 6 + 2 + 4

11. Write Short notes on any *three* of the following :          3 × 5

    a)   Message box function

    b)   2-D array

    c)   Listbox control

    d)   Timer control.