

## M4.2-R3: PROGRAMMING THROUGH VISUAL BASIC

### NOTE:

1. There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
2. **PART ONE** is to be answered in the **TEAR-OFF ANSWER SHEET** only, attached to the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book.
3. Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the answer sheet for **PART ONE** is returned. However, candidates, who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the answer sheet for **PART ONE**.

**TOTAL TIME: 3 HOURS**

**TOTAL MARKS: 100**  
**(PART ONE – 40; PART TWO – 60)**

### **PART ONE** **(Answer all the questions)**

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1 x 10)**
  - 1.1 How do you allow the user to customize the toolbar in a form?
    - A) Write code to add buttons or remove buttons based on the user selection
    - B) Set the AllowCustomize property to True and the control takes care of the rest
    - C) Toolbar custom action is automatic with any toolbar
    - D) None of the above
  - 1.2 What is the final keyword used to indicate the end (compilation) of a sub procedure?
    - A) End Sub
    - B) Exit Sub
    - C) End
    - D) None of the above
  - 1.3 Which of the following is a valid data type in VB?
    - A) Integer
    - B) Float
    - C) Char
    - D) Variable
  - 1.4 When is the Terminate event of a form triggered?
    - A) When the user moves to another form
    - B) When the form is unloaded
    - C) When for form is initialized
    - D) When all references to the form are deleted

- 1.5 In setting up a text box as a bound control, which property specifies the field of the record set to be displayed?
- A) Name
  - B) DataSource
  - C) DataField
  - D) Caption
- 1.6 Which of the following is applicable to MDI application?
- A) An MDI application need atleast one child and one parent form.
  - B) MDI Parent form contains labels and text boxes
  - C) Child forms may or may not contained within the borders of the parent form
  - D) Parent form provides an interface with which you can work
- 1.7 The Key property for Picture Box control is
- A) Picture
  - B) Caption
  - C) List
  - D) Value
- 1.8 Which of the following statement tells VB to retry the statement that caused the error?
- A) Resume Next
  - B) Resume
  - C) Retry
  - D) Resume Line
- 1.9 Which of the only event for a menu control is available?
- A) Load
  - B) Resize
  - C) Click
  - D) KeyPress
- 1.10 A new property in a class module has been created; but its scope is not specified. What scope is it?
- A) Private
  - B) Friend
  - C) Public
  - D) Global

2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the “tear-off” sheet attached to the question paper, following instructions therein. (1 x 10)

- 2.1 Menu Editor in VB provides a facility to assign hot key to menu item.
- 2.2 A variable is a name that references an area of memory which holds a temporary value.
- 2.3 LoadEvent statement is used to trigger an event in your activeX control.
- 2.4 \*.jpg image file formats can be loaded into ImageList control.
- 2.5 If you want to remove controls dynamically from your form, you can only remove controls from the form that you have created dynamically.
- 2.6 By setting the Index property one can create the first element of a control array.
- 2.7 The Recordset is used to retrieve records from the database.
- 2.8 Set property statement is required for a read only property.
- 2.9 The Form’s deactivate event is generated when another form receives the focus.
- 2.10 KeyPress event enable you to determine which key was pressed by the user.

3. Match words and phrases in column X with the closest related meaning/ word(s)/phrase(s) in column Y. Enter your selection in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1 x 10)

X		Y	
3.1	Twips	A.	Key element to create data applications

B.Defa3.2  
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ring  
the  
size of  
the  
form

3.3M ouse Up	LBound	C.	Event that can change the size and position of the control
3.4	Count	D.	Line of code has been incorrectly entered
3.5	Panel objects	E.	Event used to activate pop-up menu
3.6	Recordset	F.	A condition in the program causes an error
3.7	ADODC	G.	A property of a control array
3.8	Resize	H.	Is used to create a method for a class
3.9	Run-time errors	I.	Only property supported by collections
3.10	Public procedure	J.	Set the Public property to True
		K.	Provides the link to specific data

		<b>L.</b>	Status Bar control in which information is displayed
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4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1 x 10)

<b>A.</b>	Collections	<b>B.</b>	Name	<b>C.</b>	FormLoad
<b>D.</b>	Private class	<b>E.</b>	LostFocus	<b>F.</b>	Toolbar
<b>G.</b>	Public class	<b>H.</b>	Modless	<b>I.</b>	Multilevel
<b>J.</b>	Modal	<b>K.</b>	Property Get	<b>L.</b>	Polymorphism
<b>M.</b>	PictureBox	<b>N.</b>	Control arrays	<b>O.</b>	Global

- 4.1 \_\_\_\_\_ event is fired when user moves to another form.
- 4.2 A global variable is \_\_\_\_\_ in its scope.
- 4.3 \_\_\_\_\_ is the menu item property that you can change at runtime.
- 4.4 \_\_\_\_\_ provide means of organizing a group of related objects.
- 4.5 \_\_\_\_\_ form doesn't allow the user to activate other window.
- 4.6 Any class defined in a standard executable program is a \_\_\_\_\_.
- 4.7 The \_\_\_\_\_ control supports more events, properties and methods than Image control.
- 4.8 \_\_\_\_\_ relates to the use of the same method name in various objects.
- 4.9 One can create his own enhanced message and input dialog box using \_\_\_\_\_.
- 4.10 \_\_\_\_\_ used to retrieve the current value of the property.

**PART TWO**  
(Answer any **FOUR** questions)

- 5.**
- a) Visual Basic application provides the interface between the user and the database. What are the basic steps in developing VB applications?
  - b) Events are useful in the sense that they tell the form when to take actions. Write down the steps in sequence to create Event in a Class.
  - c) Forms are used to develop the user interface. Write a program to create and remove forms at run time.

**(2+3+10)**

- 6.**
- a) Variables are used by Visual Basic to hold information needed by your application. What are Visual Basic data types? Briefly explain each type.
  - b) Arrays and collections provide a means of organizing a group of objects. What are the differences between Control Arrays and Controls Collection?
  - c) What are the uses of Text Boxes in Windows Programs?
  - d) Modules are files that contain program code. List the different types of modules in VB.

**(4+4+4+3)**

- 7.**
- a) Write down the Form Methods to draw Lines and Circles.
  - b) How can we establish the connection of a data bound control to a database using the Data Environment?
  - c) Give the differences between check box control and option button control.

**(5+5+5)**

- 8.**
- a) MDI applications are useful when it requires working with multiple documents. Write a program to create MDI application.
  - b) Data validation is checking the input of a program against the conditions specified. Write a program to check validating data at Field level.
  - c) Write short note on: Visual Basic standard controls.

**(5+5+5)**

- 9.**
- a) List Five Properties of the ADO Data Control Recordset and explain them.
  - b) Explain: Error trapping and handling in VB.
  - c) Write down the steps in sequence for adding and deleting records with the ADODC.

**(5+5+5)**