

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. Where you write Visual Basic code for your application?
 - A) Form Layout Window
 - B) The Code Editor Window
 - C) The Project Explorer Window
 - D) Form designer
 - 1.2. Which of the following is not a property of a TextBox?
 - A) List count
 - B) Multiline
 - C) Scroll Bar
 - D) Max Length
 - 1.3. Which of the following is not a Visual Basic object?
 - A) Command Button
 - B) Form
 - C) Project
 - D) Text Box
 - 1.4. The statement: image1.Move X, Y is used to:
 - A) Move the image1 so that its upper-left corner has the X,Y coordinate
 - B) Move the image1 so that its center has the X,Y coordinate
 - C) Move the image1 so that its upper-right corner has the X,Y coordinate
 - D) Not a valid statement.
 - 1.5. When is the Form_MouseDown() event procedure executed?
 - A) When the user clicks the mouse on the Exit button.
 - B) When a mouse button is pressed inside a free area of the form
 - C) When function key is pressed inside a free area of the form.
 - D) When the mouse moves inside a free area of the form.

- 1.6. The InputBox() function :
- A) used to display message
 - B) returns a string data
 - C) returns a numeric value
 - D) returns no value
- 1.7. The KeyPress event occurs:
- A) When you press any key.
 - B) When you press any function key.
 - C) When you press any non-ASCII key.
 - D) When you press an ASCII key.
- 1.8. In Break Mode where can you change the value of variables?
- A) The Watch window
 - B) The Locals window
 - C) The Immediate window
 - D) The Call Stack
- 1.9. When you require write a VB code to enter and commit the new records to the database, which one of the following command of the control's RecordSet is not required?
- A) ADDNew
 - B) Update
 - C) Delete
 - D) None of the above
- 1.10. When variables are passed by reference (ByRef) to a SUB program,
- A) only the memory addresses of the variables are passed.
 - B) a value of a variable is passed.
 - C) a copy of the variable is passed.
 - D) none of the above

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 A time control is not visible at runtime.
- 2.2 ListBoxes provide two property arrays into which you can place data: List and ItemData.
- 2.3 MsgBox() display a dialog box that always contain OK and Cancel command buttons.
- 2.4 Win32 API is a set of functions which can be used without the VB applications.
- 2.5 The lowest TabIndex setting is always 1.
- 2.6 The scroll bar controls use the Scroll and Change events to monitor the movement of the scroll box along the scroll bar.
- 2.7 A LostFocus event procedure is primarily used for verification and validation updates.
- 2.8 A pop-up menu is a menu that is displayed over a form, independent of the menu bar.
- 2.9 If you load an MDI child window without having loaded its associated MDI Frame, the MDI frame is not loaded automatically.
- 2.10 Exit statement allows you to exit prematurely from a block of statements in a control structure, from a loop, or even from a procedure.

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	Property	A.	Present a set of choices to the user
3.2	ScaleMode	B.	DAO object
3.3	InputBox	C.	A logical set of records.
3.4	ComboBox	D.	The ActiveX control projects
3.5	Option buttons	E.	Sets the coordinates for plotting points.
3.6	DBEngine	F.	function to display messages.
3.7	Recordset	G.	function to get information from the user.
3.8	OCX file	H.	control combines the features of a text box and a list box.
3.9	Redim	I.	Static Array
3.10	PSet	J.	is a characteristic of an object, such as size, caption, or color.
		K.	is the property defines the units of the coordinate system of the object.
		L.	Dynamic Array
		M.	Sets the color of an individual pixel.
		N.	VB projects executable file

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)

A.	SetText	B.	event handler	C.	PictureBox
D.	TextBox	E.	MsgBox	F.	ListCount
G.	Modeless	H.	Name	I.	Modal
J.	Dynamic Array	K.	DataBaseName	L.	RecordSource
M.	WindowState	N.	Separator Bar	O.	Control Array

- 4.1 The number of elements in the ListBox is maintained by VB via the _____ property.
- 4.2 You can change the size of the form by setting the _____ property of the form.
- 4.3 _____ is a horizontal line used to separate menu items.
- 4.4 _____ is a group of controls that share the same name and type.
- 4.5 _____ copies text onto the Clipboard.
- 4.6 The combination of the control’s name and the event’s name is unique and is the name of the _____.
- 4.7 _____ Form takes total control of the application and won’t let the applications proceed unless the Form is closed.
- 4.8 The _____ control is used to display images.
- 4.9 The _____ dialog box function is used to display the output.
- 4.10 The _____ property indicates where in the database the data will be found.

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

- 5.**
- a) What do you understand by event-driven programming in VB? Write down a few events of a VB form.
 - b) What are the decision structures in VB? Describe **Do While** loop structure with an example.
 - c) What is IDE (Integrated Development Environment) of VB? Write down five major elements of VB IDE.

(5+5+5)

- 6.**
- a) How do you center a Form?
 - b) What does Option Explicit refer to?
 - c) What is the difference between the **Enabled** property and the **Visible** property of a menu control?
 - d) Write code that displays a dialog box with the title "ERROR", the message "Disk error!", an OK button, and an exclamation point icon.
 - e) Write code to places "Germany," "India," "France," and "USA" into a list box named List1.

(3x5)

- 7.**
- a) What is a Combo box? When to use a Combo Box instead of a List Box? What are the Style Properties of Combo Box? Which property on a Combo Box do you set with a column name, prior to setting the DataSource, to display data in the combo box?
 - b) What is ADO? What are its objects?

(8+7)

- 8.**
- a) How to create Option Button groups?
 - b) An important characteristic of a graphic object is its color. You can use the RGB() fuction or QBColor() fuction to specify the color of objects. Explain how these two functions are different.
 - c) What is a menu control array? How do you create a menu control array for the Edit menu controls Cut, Copy, and Paste (mnuEditItem) in the Menu Editor?

(4+4+7)

- 9.** Describe any **three** of the following:
- a) MDI Applications.
 - b) Image control and Picture control.
 - c) Common Dialog control.
 - d) Scroll Bar control.
 - e) Windows API functions.

(3x5)