

## 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 Which method is used to release the connection to a database?
    - A) Close
    - B) Cls
    - C) Close connection
    - D) None of the above
  - 1.2 How do you create a method for a class?
    - A) Creating a public procedure in a class module
    - B) Creating a private procedure in a class module
    - C) Creating a properties of class
    - D) None of the above
  - 1.3 One advantage of the object browser over the properties window is that:
    - A) The browser can show both function and subroutine of the registered classes
    - B) The browser can set the properties of the registered classes
    - C) The browser can show both properties and methods of the registered classes.
    - D) All of the above
  - 1.4 Properties can be viewed in two ways
    - A) Alphabetic and Numeric
    - B) Numeric and alphanumeric
    - C) Alphabetic and categorized
    - D) None of the above

- 1.5 By default, the Text Box Control can hold the text of
- A) Multipleline
  - B) Single Line
  - C) Password character
  - D) None of the above
- 1.6 All the following statements are true about variable scope except:
- A) Local
  - B) Module
  - C) Global
  - D) Static
- 1.7 Which one of the following command tells that the child form was most recently active?
- A) Show
  - B) Open
  - C) New
  - D) None of the above
- 1.8 When you compile an ActiveX Control, the file has an extension of
- A) .ctl
  - B) .vbp
  - C) .ocx
  - D) None of the above
- 1.9 In ListBox, When Multi select properties set to 1, then
- A) Multiple selections allowed
  - B) Multiple selections not allowed
  - C) Group selection allowed
  - D) None of the above
- 1.10 When the form receives focus from another form, the triggered event is
- A) Load
  - B) Show
  - C) Activate
  - 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 IDE stands for Integration Development Environment
- 2.2 Placing the controls on the form creates user interface.
- 2.3 Local variables can be used anywhere within the program.
- 2.4 The Hide method removes Form from the display, and from the memory.
- 2.5 Set Focus method of TextBox places the cursor in a specified text box.
- 2.6 You can use the timer control to perform the tasks at regular intervals.
- 2.7 Debug window is same as Code window.
- 2.8 The MultiSelect property determines how the user can select the List’s items and must be set at runtime.
- 2.9 Inheritance is a mechanism of deriving a new class from old one.
- 2.10 SQL commands are sent to the database by means of the Open method.

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	Contains the information necessary to establish a connection	A.	Dynamic Cursor
3.2	Allows to view additions, changes and deletions by other users	B.	Explicit Variable
3.3	The embedded data are also linked to the document from which they come	C.	Object Linking
3.4	Selected portion of a text string	D.	ConnectionString
3.5	Argument passing mechanism	E.	Step Out
3.6	To copy an image from a source to a designation	F.	ByVal and ByRef
3.7	Displays the request information during break mode	G.	Mid
3.8	The default property of Err object is	H.	BitBlit( )
3.9	Executes the reminder of the current procedure and breaks at the next line in the calling procedure	I.	Scale mode
3.10	Sets control’s current system	J.	Immediate Window
		K.	Number
		L.	MsgBox

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>	Scope	<b>B.</b>	AddItem	<b>C.</b>	Password Char
<b>D.</b>	Frame	<b>E.</b>	Properties window	<b>F.</b>	DLL
<b>G.</b>	Index	<b>H.</b>	User-defined	<b>I.</b>	QueryUnload
<b>J.</b>	ForeColor	<b>K.</b>	Internal	<b>L.</b>	Jet
<b>M.</b>	DataItem	<b>N.</b>	KeyDown		

- 4.1 The \_\_\_\_\_ is used to establish initial property values for the project.
- 4.2 \_\_\_\_\_ Control is used to provide an identifiable grouping for other controls.
- 4.3 To explicitly type a variable, you must first determine its \_\_\_\_\_.
- 4.4 The \_\_\_\_\_ field is used to create an array of commands.
- 4.5 The \_\_\_\_\_ property of TextBox hides text with a single character.
- 4.6 The \_\_\_\_\_ method adds a row to an MSHFlexGrid.
- 4.7 The \_\_\_\_\_ property of the Picture box or form determines the color of the shape you draw.
- 4.8 When an MDI form is unloaded, the \_\_\_\_\_ event is invoked first for the MDI form.
- 4.9 Calling DLL routines from your program is the same as calling a(n) \_\_\_\_\_ procedure.
- 4.10 A(n) \_\_\_\_\_ loaded at runtime does not need to be linked to your applications.

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

- 5.**
- a) Write a short note on Arrays?
  - b) Differentiate between the class module and the standard module?
  - c) Define Shadowing?
- (5+5+5)**
- 6.**
- a) How to change the position of the form during design time? And How to position it during run time?
  - b) Write short on Timer Control.
  - c) What are different types of Data types in Visual Basic? Explain the user defined data types.
- (7+4+4)**
- 7.**
- a) What are three types of programming errors and explain them in brief?
  - b) Describe following layers of Visual basic application?
    - i) User interface
    - ii) Data interface
    - iii) Transaction interface
    - iv) External Access Interface
  - c) What is MDI? Briefly explain.
- (5+6+4)**
- 8.**
- a) Write Short notes on following objects?
    - i) Connection Object
    - ii) Recordset object
  - b) What is use of Popup menu? Explain, how to create the Popup menu in Visual Basic?
  - c) How to manipulate menu at run-time?
- (6+5+4)**
- 9.**
- a) Explain with example how the ADO allows you to access data from a database.
  - b) Distinguish among RUN, Design and Debug modes in Visual Basic.
- (8+7)**