



**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY, WEST BENGAL**

Paper Code : BCA-203

COMPUTER PROGRAMMING

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. Answer the following questions (*any ten*):

1×10=10

- (i) Which properties must be set to bind a control to a data environment?
(a) Data Source and Data Field (b) Data Field and Data Format
(c) Data Member and Data Field (d) Data Source and Data Member
- (ii) To mandate the definition of variable, the statement is
(a) Option Implicit (b) Option Initialise Text
(c) Option Explicit (d) None of these
- (iii) _____ method removes a dialog box from view.
(a) Display (b) Disable
(c) Hide (d) Enabled
- (iv) _____ used for finding out about objects, properties and methods.
(a) Object browser (b) Form layout window
(c) Code window (d) None of these
- (v) Which of the following control cannot be added to a MDI form?
(a) Picture Box (b) Timer
(c) Command Button (d) Menu
- (vi) Which function is used to check whether a variant optional parameter has been passed to a function?
(a) IsNull () (b) IsEmpty ()
(c) IsMissing () (d) IsSent ()

Turn Over

- (vii) What is the difference between MsgBox () and InputBox () function?
- (a) MsgBox () is used for taking input from keyboard and InputBox () is used for display output.
 - (b) MsgBox () is used for displaying error message and output and InputBox () is used for taking input from the user.
 - (c) MsgBox () and InputBox () both are used for displaying error message and output.
 - (d) MsgBox () and InputBox () both are used for taking input from the keyboard.

(viii) What is the output of the following code segment?

```
Dim s1, s2, s3 As String
s1 = "Have a nice day"
s2 = "nice"
s3 = Instr(1, s1, s2, 1)
Output is
```

- (a) 0
- (b) 2
- (c) 8
- (d) 4

(ix) What is the output of the following program?

```
Private sub Form_Load()
Dim s1, s2 As String
s1 = "ABCDEF"
s2 = Left$(s1, 4)
Text1.text = s2
End Sub
```

ABCDEF

- (a) Output is : CDEF
- (b) Output is : ABCD
- (c) Output is : ABEF
- (d) Output is : BCDE

(x) Which statements are true?

- (a) Multiple items are selected by the Option Button
- (b) Multiple items are selected by the Check Box.
- (c) Both are true
- (d) None of the above

(xi) Which statements are true?

- (a) A Combo Box combines the features of a List Box and a Text Box.
- (b) A List Box combines the features of a Combo Box and a Text Box.
- (c) Both are true
- (d) None of the above

Group - B

(Short Answer Type Questions)

Answer any three questions:

5×3=15

2. What is the difference between MDI and SDI? What is the limitation of SDI? 5
3. Write a program to take an integer as input in a text box and print in a message box whether the given number is prime. 5
4. What is Dynamic Array? What is use of ReDim statement? What is Preserve Keyword? Explain with example. 1+1+1+2=5
5. What is an event? What is an event procedure? What is an Event Driven Programming? 1+1+3=5
6. Write a recursive function to find the sum of digits of a number. 5

Group - C

(Long Answer Type Questions)

Answer any three of the following:

15×3=45

7. (a) Write a binary function for searching a particular element.
 (b) What is control array? Describe with an example how to create a control array.
 (c) What is keyboard access character? How is an access character associated with a menu item?
 (d) What is a difference between a drop-down menu and a pop-up menu? 4+4+3+4=15
8. (a) What is the difference between EOF () and BOF ().
 (b) Write short notes about OLEDB.
 (c) What do you mean by Module? Define Form module and Standard module.
 (d) Define Let, Set and Get methods. 2+3+5+5=15
9. (a) Write a VBprogram that allows the user to Input his name and print the initials of the name. For example: Maulana Abul Kalam Azad Output: M.A.K.A.
 (b) Write a VBprogram to check whether a year is leap year or not.
 (c) Explain types of loops in Visual Basic. 6+6+3=15
10. (a) Write the difference between Public function and Private function.
 (b) Write a program to add, edit, delete records to/from the table.
 (c) Explain with suitable example. Describe the scopes of Dim, Private and Public variables. 3+7+5=15
11. Write short notes on any three of the following: 5×3=15
- (a) ODBC
- (b) Input Box and Text Box
- (c) Option Button and Check Boxes
- (d) Str () and Val ()
- (e) Random Access File