



**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. Choose the correct alternatives for the following :

10 × 1 = 10

- i) The function is used to print data in a form.
- | | |
|---------|------------------|
| a) Show | b) Print |
| c) Echo | d) All of these. |
- ii) The 'event' that occurs when a form gets the focus is
- | | |
|---------------|-------------|
| a) GotFocus | b) Activate |
| c) Initialize | d) Load. |
- iii) Validate event is called when
- | |
|-----------------------------|
| a) the control is clicked |
| b) focus enters the control |
| c) focus leaves the control |
| d) none of these. |

- iv) With ADO, which method is used to add a new record to a record set ?
 - a) Insert
 - b) Update
 - c) AddNew
 - d) Append.
- v) Mid ("India Is Great", InStr ("Great", "G"), InStrRev ("Great", "t")), returns
 - a) Great
 - b) A Is G
 - c) India
 - d) Error.
- vi) Which properties must be set to bind a control to a data environment ?
 - a) DataSource and DataField
 - b) DataField and DataFormat
 - c) DataMember and DataField
 - d) DataSource, DataMember.
- vii) Which of the following is not the property of Textbox ?
 - a) List count a
 - b) Multiline
 - c) Scroll Bar
 - d) Returns no value.
- viii) The MsgBox() function
 - a) issued to take string from keyboard
 - b) returns a string data
 - c) returns a numeric value
 - d) returns no value.
- ix) To extract the substring 'ver' from the string 'university' the function should be
 - a) mid ("university",4,4)
 - b) right (left ("university",6),3)
 - c) left (right ("university",6,3)
 - d) none of these.
- x) The function of Trim string function is
 - a) to make the first letter capital
 - b) to truncate all leading and trailing blank characters
 - c) to delete all blank characters at the last of the string
 - d) none of these.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. ✓ Write a code that takes an integer in a textbox and displays the factorial of that number in MsgBox.
3. What is the difference between the *Enabled* property and the *Visible* property of a menu control ?
4. Write the differences between any *two* of the following :

$2 \times 2\frac{1}{2}$

- a) ✓ List Boxes and Combo Boxes
- b) Option Buttons and Check Boxes
- c) ✓ Input Box and Message Box

5. ✓ Write a function in VB which will check whether a string is palindrome or not.

6. ✓ Describe briefly the *For Each ... Next* statement. How does it differ from *For ... Next* structure ? $3 + 2$

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. ✓ a) What do you mean by class and objects ? How does object oriented programming support the concept of polymorphism ? $3 + 4$
- b) How will you create a standard .exe file in VB ? 2
- c) What is variant ? Write the significance of variant in passing optional values in function. $2 + 2$
- d) What do you mean by Constant variable in VB ? 2
8. ✓ a) What is an array ? Explain declaration and processing of one and two dimensional array. $2 + 3$
- b) How to create dynamic array ? How to preserve previous values in an array while expanding its size ? $2 + 2$
- c) Write a program in VB to perform Bubble Sort of n number of numbers. 6

9. a) What do you mean by 'Event-Driven-Programming' ? What are the basic components of any VB project ? Explain the different project types available in VB. 6
- b) What is an MDI Form ? Explain, how it differs from normal form. Which property has to set to make a form a child form of the MDI parent form ? 3
- c) Differentiate between the following :
- i) Picture box and Image Controls
 - ii) Combo box and Listbox Controls
 - iii) Checkbox and Option Button. 6
10. 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 Data Source, to display data in the combo box ? 8
- b) What is ADO ? What are its objects ? 7
11. Write short notes on any *three* of the following : 3 × 5
- a) OLE
 - b) Data Control
 - c) Message box and Input box
 - d) Sequential and Random file
 - e) Binary search.
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