

## WEST BENGAL UNIVERSITY OF TECHNOLOGY

### **BCA-203**

### **COMPUTER PROGRAMMING**

Time Allotted: 3 Hours

Full Marks: 70

 $10 \times 1 = 10$ 

The questions are of equal value.

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable. All symbols are of usual significance.

## **GROUP A**(Multiple Choice Type Questions)

1. Answer all questions. (i) ADO refers to (A) Abstract Data Object (B) Activex Data Object (C) Actual Data Object (D) None of these (ii) Which of the following is not a VB datatype? (A) String (B) Currency (C) Data (D) Variable (iii) Complexity of selection sort is  $(A) O(n^2)$ (B) O(n) (C)  $O(n \log_2 n)$ (D) None of these

Turn Over

2103

#### CS/BCA/Even/Sem-2nd/BCA-203/2015

(iv)	To detect the undefined variable, the statement is		
	(A) Option Base	(B) Option Explicit	
	(C) Option Compare Text	(D) None of these	
(v)	Default lower index of an array is		
	(A) 2	(B) 1	
	(C) 0	(D) none of these	
(vi)	Which of the following is not property of text box?		
	(A) List count	(B) Multiline	
	(C) Scrollbars	(D) Maxlength	
(vii)	IDE stands for		
	(A) Information Development Environment		
	(B) Integrated Development Environment		
	(C) Integrated Design Environment		
	(D) None of these	*.	

- (viii) ODBC Stands for
  - (A) Open Database Connectivity
  - (B) Object Database Connectivity
  - (C) Oracle Database Connection
  - (D) None of these
  - (ix) Common Dialog boxes
    - (A) allow Visual Basic programs to translate the text on the screen into another Language
    - (B) display the predefined Windows dialog boxes for print, open, save, fonts and colours
    - (C) can only be used on forms with menus
    - (D) allow you to create message boxes that will pop up and prompt the user for text input

2

2103

(x)	You are designing a form and it will be necessary for the user to type in their name. You should use a for inputing		
	the user's name		
	(A) text box	(B) label	
	(C) command button	(D) check box -	

# **GROUP B** (Short Answer Type Questions)

	Answer any <i>three</i> questions.	$3\times 3 = 13$
2.	Write a program to display different colours specific interval.	5
3.	Why VB is called "Event Driven Programming"?	5
4.	What is MDI form? What is the utility of this form in VB project?	5
5.	What is the select case structure? When do we use it? Give the general syntax of select structure.	5
6.'	What are the different scopes of VB?	5

# **GROUP C** (Long Answer Type Questions)

	Answer any three questions.	$3 \times 15 = 43$	5
7. (a)	What is the difference between drop-down menu and pop-up menu?	:	5
(b)	What is dynamic array? Explain with an example. What is the proper use of "ReDim" statement?	:	5
2103	3	Turn Over	

	(c)	Write a VB program to sort 10 numbers.	5
8.	(a)	Write a VB a program to create a login form. If the login is correct it will open a new form displaying "Welcome". If login is not correct then it will identify the error and show a proper error message to user.	8
	(b)	What is menu editor? Write the process to create a menu. How can you add menu separator?	5
	(c)	What is static variable?	. 2
9.	(a)	What is Common Dialog control? Briefly describe the six Common Dialog Methods.	5+10
-	(b)	Write a program to implement Binary Search and Insertion Sort Algorithm in VB.	
10	.(a)	Differentiate between MsgBox and Input Box function.	5
	(b)	Write a program that input three different integers using Input Box function and print the sum, the average, the product, smallest and the largest of these numbers on the form.	5
	(c)	Using timer control in a form, show the current time and date after it is being loaded.	5
11	•	What is procedure? How many procedures are there in Visual Basic? What is the basic difference between them? Write the	

steps to create and call a procedure in VB application. What is the difference between call by value and call by reference?