

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



# WEST BENGAL UNIVERSITY OF TECHNOLOGY

## BCA-203

### COMPUTER PROGRAMMING

Time Allotted: 3 Hours

Full Marks: 70

*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. 10×1 = 10
- (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

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- (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



- (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? 2+1+2+6+4