

**October 2025**  
**B.A./B.Sc.**  
**Fifth Semester**  
DISCIPLINE SPECIFIC ELECTIVE – 2  
**COMPUTER SCIENCE**  
*Course Code: CSD 5.21*  
(Programming in Visual Basic)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. (a) Explain the features and advantages of Visual Basic. 4  
(b) What are form controls? Explain the usage of text box, combo box, and command button with examples. 2+6=8  
(c) How do you add items to list box? 2
2. (a) Explain, with examples, the different types of variables in Visual Basic. 6  
(b) Write a VB program to find the largest of three numbers. 5  
(c) Explain difference between functions and procedures in Visual Basic. 3

**UNIT-II**

3. (a) Describe different types of loops in VB with suitable examples. 6  
(b) What is the difference between InputBox and MsgBox in Visual Basic? 4  
(c) Write a Visual basic program, which will generate the even numbers from 10 to 50. 4
4. (a) Explain the concept of control array with an example. 4  
(b) What is control structures? Write the syntax of an If...Then...Else statement with an example. 2+4=6  
(c) Design a program in VB to create a student mark sheet that accepts marks of 3 subjects and calculates total, average, and grade. 4

### UNIT-III

5. (a) Explain any four date( ) functions with examples.  $2 \times 4 = 8$   
(b) Write a program in VB to check whether a given string is a palindrome or not. 6
6. (a) Explain six string functions in VB with suitable examples. 6  
(b) Write a short note on the use of Space( ) and String( ) functions. Differentiate between Val( ) and Str( ) functions with examples.  $2 + 2 = 4$   
(c) Explain the following string functions with the help of a program.  $1 + 1 + 1 + 1 = 4$   
(i) Len( ) (ii) LTrim( )  
(iii) Left ( ) (iv) Center ( )

### UNIT-IV

7. (a) What is DAO? How is it used in Visual Basic?  $2 + 2 = 4$   
(b) Discuss in detail the different ways to connect a Visual Basic application to a database. 4  
(c) Describe the procedure to connect front-end (VB) with back-end (MS Access/SQL Server) with data control. 6
8. (a) Differentiate between DAO and ADO in database connectivity. 6  
(b) Explain ADODC control and write the steps to connect a database. 4  
(c) Explain the following terms:  $2 \times 2 = 4$   
(i) RDO (ii) JET database engine

### UNIT-V

9. (a) Differentiate between a form and a report in VB. 4  
(b) What is a data source? What are the steps to create a data report in Visual Basic?  $2 + 8 = 10$
10. (a) What is the use of the Data Report Designer in VB6? Write the steps for creating Crystal Reports in VB.  $3 + 5 = 8$   
(b) Compare Data Report Designer and Crystal Reports in Visual Basic. 6