

2022
B.A./B.Sc.
Fifth Semester
DISCIPLINE SPECIFIC ELECTIVE – 2
COMPUTER SCIENCE
Course Code: CSD 5.21
(Programming in Visual Basic)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

- | | | |
|----|---|---|
| 1. | (a) Explain the Visual Basic application components. | 8 |
| | (b) Explain any four of the common form properties. | 4 |
| | (c) What is property window in Visual Basic? | 2 |
| 2. | (a) Explain any four controls of Visual Basic. | 4 |
| | (b) Write the steps for creating menu with Menu Editor. | 5 |
| | (c) Write a program to check whether the given year is leap or not. | 5 |

UNIT-II

- | | | |
|----|---|-------|
| 3. | (a) What is a variable and in which ways it can be declared in Visual Basic? | 2+4=6 |
| | (b) What is array? Explain different types of arrays. | 1+3=4 |
| | (c) Design a form in Visual Basic to calculate area and perimeter of a rectangle. Display the two textboxes for reading length and breadth of rectangle and two buttons to calculate area and perimeter of the rectangle. Write code to calculate area and perimeter. | 4 |
| 4. | (a) Explain do loop, while loop, and for loop in VB. | 6 |
| | (b) What are control arrays? | 2 |
| | (c) Write a Visual Basic program to print day of week name using switch case. | 6 |

UNIT-III

5. (a) Explain how InputBox () function is used. 4
(b) Explain any four Date () functions with examples. 8
(c) What will be the values of x after the execution of each step one by one? 2
- ```
x=1
if x<5 then
x=0
end if
x=x+1
```
6. (a) What is MsgBox () function? 2  
(b) Write any four string functions in Visual Basic. 8  
(c) Write a Visual Basic program to find the given number is odd or not, and outputting data to a message box. 4

### UNIT-IV

7. (a) Write short notes on RDO. 3  
(b) Explain steps involved to access the data with data control from a database in Visual Basic. 8  
(c) Explain the JET database engine. 3
8. (a) What are the features of ADO? 3  
(b) What are the steps for creating ADO control? 8  
(c) Write the steps for creating table (MS Access) in Visual Basic. 3

### UNIT-V

9. (a) What is table in database? 2  
(b) Why do we need data report? 2  
(c) Explain the proper steps for preparing data report in Visual Basic. 10
10. (a) What is primary key in database? 2  
(b) What is crystal report? 2  
(c) Write proper steps required for preparing crystal reports in Visual Basic. 10