

2 0 2 1

(July)

COMPUTER APPLICATION

(Honours)

(VB.NET Programming)

(BCA-403)

Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Unit

UNIT—I

1. (a) What is the common language runtime?
Explain any three VB.NET projects. 2+3=5
- (b) Explain the working of the For...Next
Loop with suitable examples. 5

2. (a) Explain the following concepts : 2×3=6
- (i) Name spaces
- (ii) Shadowing
- (iii) Jagged arrays
- (b) With the help of an example, explain the
two variations of Do...Loop using Until
and While keyword. 2+2=4

UNIT—II

3. Write a block of code to determine whether
the word taken as input is a Palindrome.
A Palindrome is word, which spells the same
even when reversed. 5
4. Explain the Try...Catch...Finally block
structure. 5

UNIT—III

5. (a) Explain two ways in which an argument
can be pass to a procedure with an
example for each. 3+3=6
- (b) What is a recursive function? Write a
recursive function to find the sum of
natural numbers up to n . 1+3=4

(3)

6. (a) Define constructor. Explain constructor overloading with an example. 1+3=4
- (b) What is a property procedure? Provide its syntax. With the help of an example, show how a ReadOnly property procedure is used. 2+1+3=6

UNIT—IV

7. (a) Explain the CreateDirectory and GetDirectories methods of the Directory Class. 2+2=4
- (b) What is a file stream? Elaborate on the process of reading the contents of a text file using the methods of the StreamReader Class. 2+4=6
8. (a) With the help of a diagram, illustrate the ADO.NET Architecture. What is Data Binding? Explain two types of Data Binding. 1+1+2=4
- (b) What is a DataSet? Explain how a new row can be added to an existing DataTable. 2+4=6

(4)

UNIT—V

9. (a) What are Validation Controls? Explain any two such controls along with the properties required to work with them. 1+2½+2½=6
- (b) Explain any two events of a Web Application. 2+2=4
10. (a) What is a Web Service? Write a Web Method to return the number of vowels present in a multi-word string taken as input. 2+4=6
- (b) Explain the importance of State Management in Web Application. Explain how Cookies are used in State Management. 1+3=4
