2 0 2 2

(February)

COMPUTER SCIENCE

(Honours)

(Programming using VB.NET)

[CS–502BT]

Marks : 38

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 are flow control statements? List any two flow control statements. 1+2=3

(b) Explain with an example, how you can change a variable type to another. 2

(c) Discuss the IntelliSense feature of the VB Editor. What are IntelliSense options available? 3

(Turn Over)

2. *(a)* What are the different access specifiers available in VB.NET? Discuss briefly each with proper example. 3

(b) Discuss briefly any *two* of the following : 2
   (i) NaN
   (ii) Strict option
   (iii) Constant variable

(c) Write the section of code to find the sum of *n* natural numbers using While loop and For loop. 3

UNIT—II

3. *(a)* What is a ParamArray? Give a section of code to justify your answer. 3+3=6

(b) With example discuss any two types of errors encountered. 2

4. *(a)* What are exceptions? Discuss various exception handling mechanisms. 2+3=5

(b) Write a section of code to find the factorial of a number using recursive function. 3

(Continued)

(3)

UNIT—III

5. *(a)* Explain the concepts of Me keyword, MyBase keyword, MyClass keyword w.r.t. inheritance. 2+2+2=6

(b) Discuss the usage of property procedure in a class. 2

6. *(a)* Explain the concepts of shared methods and shared variables w.r.t. inheritance. 2½+2½=5

(b) What is a copy constructor? Explain. 1+2=3

UNIT—IV

7. *(a)* How can you create a child form for an existing form? Give the steps. 2

(b) Write a section of code to read the content of a source text file and copy it to another target file.
The source file and the target file names must be taken from the user. 3

8. *(a)* Write a small program to count the number of vowels using string class methods. 2

(4)

(b) List three properties/features of MDI application. 3

UNIT—V

9. *(a)* Discuss DataReader and DataTable. Show how they can be used in ADO.NET. 3+3=6

(b) What are sessions in ASP.NET? Give example to explain your answer. 1+2=3

10. *(a)* What are web services? Write down the steps to create a web service and how to consume them. 3+3=6

(b) Discuss how repeater is different from DataGridView in ASP.NET. 3

(Internal—12)

★ ★ ★