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(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

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

(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. $2\frac{1}{2}+2\frac{1}{2}=5$
- (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)
