

**N 1326**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2004.

Sixth Semester

Computer Science and Engineering

CS 062 — C# AND .NET FRAMEWORK

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any two services offered by .NET platform.
2. State True or False for the following :
  - (a) The web service can be written in any tool
  - (b) HTTP protocol is a suitable protocol for invoking remote procedures.
3. List any two applications of .NET.
4. What are the different datatypes in C#?
5. Explain the usage of namespaces.
6. What is the difference between while loop and dowhile loop?
7. Define what is class.
8. Explain the concept of Multiple Inheritance.
9. List any two Exception Handling Statements.
10. What are various operators available in C#.

PART B — (5 × 16 = 80 marks)

11. (i) Explain the features of C#. (8)  
(ii) Describe briefly the services offered by the .NET platform. (8)
12. (a) (i) Explain the structure of .NET platform. (8)  
(ii) Write a C# program to solve a quadratic equation. (8)

Or

- (b) (i) What are the differences between HTTP and SOAP?  
(ii) Write a C# program to sort an array of 10 numbers in ascending order.
13. (a) (i) Explain how a variable can be defined. (4)  
(ii) Explain any four operators in detail. (8)  
(iii) Write a C# program to find a program whether it is odd or even. (4)

Or

- (b) (i) Explain how an array can be defined in C#. (4)  
(ii) Explain the usage of any two control statements in C#. (8)  
(iii) Write a C# program to find the transpose of a given matrix. (4)
14. (a) (i) List any four differences between C++ and C#. (8)  
(ii) Explain the need for structures and also explain how structure is different from class. (8)

Or

- (b) (i) Explain what is exception and explain how exceptions can be handled in C#. (8)  
(ii) Explain the following : (8)  
Operator overloading and multicasting.

15. (a) (i) Explain any two console I/O operations with examples. (8)
- (ii) Write a program to find whether a given word is palindrome or not. (8)

Or

- (b) (i) Explain how inheritance is implemented in C# with examples. (8)
- (ii) Write a program to find the biggest and smallest numbers in an array alongwith their positions. (8)
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