SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E - CSE
Title of the paper: C# and .NET
Semester: V — Max. Marks: 80
Sub.Code: 511502/611502 — Time: 3 Hours
Date: 08-11-2008 — Session: FN

PART – A (10 x 2 = 20)

Answer All the Questions

1. What is metadata?
2. How C# Basic addition operator used to concatenate two strings into one longer string give an example?
3. What is garbage collection?
4. What is an Interface?
5. Write a note on error provider?
6. Define stream class?
7. Explain the structure of the registry in C#.
8. What are the basic ADO.NET objects?
9. Give the basic structure of a HTML document?
10. What is the difference between Authentication and authorization?

PART – B (5 x 12 = 60)

Answer All the Questions

11. Explain in detail about the building blocks of .NET?

(or)

12. (a) What are different types of parameters? Illustrate with examples.

(b) What is string data type? Illustrate the terms interning, immutable and verbatim.

13. With example explain the core principle of OOPS and how it is supported in C#.

(or)

14. (a) What is a delegate? How it is declared? Illustrate with code segments to pass encrypt and decrypt methods to implement secured transmission of an integer using delegates?
    (b) What is exception? How it is handled in .NET?

15. (a) Discuss the mouse events and keyboard events of the control class in detail with code snippets.
    (b) What is application class? Discuss core methods and core properties of application class?

(or)

16. Explain with example how different type of means are built using window forms.

17. Illustrate the following with code segments.
    (a) Text boxes
    (b) Radio buttons and group boxes
    (c) List boxes and combo boxes

(or)

18. Explain in detail how read and write operating can be performed using stream reader and stream writer classes.

19. (a) What is the difference between ADO and ADO.NET? (4)
    (b) Explain with code segments how data binding is done using ADO.NET? (8)

(or)

20. (a) Discuss in detail about the anatomy of a web service. (4)
    (b) Explain the following with example coding (8)
    (i) Transmission of data using HTTP GET and POST.
    (ii) Transmission of data using SOAP.