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B.E./B.Tech (Full Time). DEGREE END SEMESTER EXAMINATIONS, April/May 2014.

Computer Science & Engineering

Fifth Semester

CS511 – C# and .NET Technology

(Regulation 2004)

Time: 3 Hrs

Max.Marks:100

Answer ALL questions

PART A-- (10 x 2 = 20 marks)

1. What is Inheritance; does C# support Multiple class inheritance?
2. What is Microsoft Intermediate Language (MSIL)?
3. Write the difference between Array and Array List?
4. How will you handle exceptions in multicast delegates?
5. What are the benefits of using ADO.NET in .NET 4.0?
6. How can you prevent your web services from unauthorized access?
7. Define Global Assembly Cache?
8. What is the use of System.Reflection namespace?
9. Can we have multiple threads in one Application domain?
10. List the Features of Web Services.

Part – B (5 x 16 = 80 marks)

11. (i) Explain Operator overloading. (8)
(ii) Explain the architecture of .NET Framework with neat diagram. (8)
12. a) (i) Explain Jagged Arrays with examples. (8)
(ii) Explain Delegates in Detail. (8)

OR

- b) (i) Write a C# program for String operations, illustrates the use of some of these methods including compare(), concat(), copy(), Insert(), Endswith(), and indexOf(), (16)

13. a) (i) Write a C# program to implement a Client Program to test the Calculator Web Service. (8)
(ii) Explain ADO.NET Object Model with examples. (8)

OR

- b) (i) Write the following Technologies of .NET Web services.
a) SOAP b) WSDL c) DISCOVERY d) HTTP. (16)

14. a) (i) Explain Assemblies in Detail. (16)

OR

- b) (i) Write detail about Automatic Memory Management. (8)
(ii) Write Short notes on CLR Hosting. (8)

15. a) (i) Write a C# Program Exploring Files and Sub directories, here File Information object for each file in each subdirectory. That object is used to display the name of the File, along with its length and the date and time it was last accessed. (16)

OR

- b) (i) Explain Remoting in Detail. (8)
(ii) Write Short Notes on Web services. (8)