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**B.E / B.Tech (Full-time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2011
COMPUTER SCIENCE BRANCH
SIXTH SEMESTER (Elective)**

CS 9029 .NET AND C# PROGRAMMING

REGULATIONS 2008

Time : 3 hrs

Max Mark : 100

**Answer ALL Questions
Part – A (10x2 = 20Marks)**

1. What is the Common Language Runtime?
2. Differentiate between implicit and explicit casts. Give an example where an implicit cast is not possible.
3. Briefly describe the features of Regular Expressions.
4. Discuss Exception Classes in C#.
5. What are Trace Listeners?
6. Describe any one detail of managing the file system on C#.
7. What is ADO.NET?
8. Briefly discuss what is SOAP.
9. Describe the architecture of .NET.
10. Explain shared assemblies.

Part – B (5x 16 = 80 Marks)

11. Attempt to design software that will translate from MSIL to a specific instruction set of your choice. Present the overall design first. Show how it will work for at least one particular MSIL instruction or feature.
12. a. Describe in detail the features of 'delegates' and give appropriate code snippets as examples.

(OR)

12. b. Describe in detail the features of 'generics' and give appropriate code snippets as examples.
13. a. List different features of threading and synchronization and discuss in detail.

(OR)

13. b. List different features of localization and discuss in detail.

14. a. Write short notes on
- (i) Window based applications (8 marks)
 - (ii) ASP.NET (8 marks)

(OR)

14. b. Write short notes on
- (i) Data access with .NET (8 marks)
 - (ii) Web services (8 marks)

15. a. (i) Describe in detail how CLR hosting is done. (8 marks)
- (ii) Attempt to design a new way and describe the details. (8 marks)

(OR)

15. b. (i) Describe in detail how appdomains are handled. (8 marks)
- (ii) Attempt to design a new way and describe the details. (8 marks)