USN

First Semester M.Tech. Degree Examination, February 2013 C# and ·NET

Max. Marks:100 Time: 3 hrs.

		Note: Answer any FIVE full questions.	
1	a. b. c.	What are the building blocks of •NET framework? Explain with neat diagram. Explain the working of CLR, with a neat diagram. Explain the core features of •NET.	(08 Marks) (08 Marks) (04 Marks)
2	a. b. c.	What is preprocessor directive? List and explain any three directives. What is corDBG.exe? List and explain the flags of CORDBG.exe. Explain boxing and unboxing, with a neat example.	(08 Marks) (08 Marks) (04 Marks)
3	a. b.	Explain the anatomy of simple C# program. With an illustrative example, explain what happens when reference type is passe and passed by reference.	(08 Marks)
	c.	Explain System Object? List and explain the instance method and static n	
		System-Object.	(08 Marks)
4	a. b. c.	Explain the technique to preserve the integrity of state data. What are the three pillars of OOPs in C#? Differentiate between "is -a" and relationship. Define a person class with three data members: age, name and sex i) Crate appropriate constructor ii) Derive a class called employee form person that adds a data member comployee code iii) Derive another class called specialist from employee iv) Add a method to each of the derived class to display information about what a driver program to generate an array to three ordinary employees and another three specialist and display information about them. Also display the information specialist by calling the method inherited form employee class.	de to store it is. Write her array of ation of the (08 Marks)
5	a. b. c.	List and explain with code, the core members of system. Exception type. Explain handling multiple exceptions with a program. Explain object generations.	(10 Marks) (05 Marks) (05 Marks)
6	a. b. c.	What is an interface? Why are they used in C# programming? With an example, four interface of system. Collection. What are the main advantages of C# events? Explain how to achieve shallow copy and deep copy in C#?	explain any (10 Marks) (05 Marks) (05 Marks)
7	a. b.	What is a delegate? Explain synchronous and asynchronous delegate, with an example With example, discuss: i) Checked ii) Unchecked iii) Unsafe iv) Stack alloc v) Size of.	e.(10 Marks) (10 Marks)
8	a. b. c. d.	Write short notes on: Cross language inheritance Logical and physical view of assembles Strong names Shared assemblies.	(20 Marks)
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