USN CEE

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024

CMR

C# Programming and •NET

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		PARI – A	
1	a. b.	Discuss the building blocks of •NET framework with a neat diagram. Explain the common language runtime in detail. Illustrate the workflow that t between the source code, give •NET complier and •NET execution engine.	(10 Marks) akes place (10 Marks)
2	a.	Explain the following with respect to C# application: i) Referencing external assemblies ii) Compiling multiple source files iii) Response files	ć
		iv) Command line Debugger.	(12 Marks)
	b.	Explain any three C# preprocessor directives.	(08 Marks)
2		Explain the core members of System. Object class.	(06 Marks)
3	a.	Discuss the method parameter modifiers with an example for each.	(10 Marks)
	b.	What is Boxing and Unboxing? Give examples for each.	(04 Marks)
	C.	What is Boxing and Unboxing? Give examples for each.	
		What is encapsulation? Explain the two ways of enforcing encapsulation with	examples
4	a.		(09 Marks)
		each.	(06 Marks)
	b.	Explain the containment/Delegation model with an example.	(05 Marks)
	c.	Explain two different roles of this keyword with an example.	(05 Marks)
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		PART – B	
_		Explain the finalization process in •NET environment.	(04 Marks)
5	a.	Explain the members of system. GC type with an example.	(06 Marks)
	b.	Develop a C# program to create user defined exception to handle divide by zero e	rror.
	c.	Develop a C# program to create user defined exception is	(10 Marks)
		J' AV AV	
6		Explain three different ways of obtaining interface references with neat examples	(10 Marks)
6	a.	Explain how do you build cloneable objects in C# with example.	(10 Marks)
	b.	Explain now do you build cioneable bejoots in	
_		What are delegates? Explain the concept of multicast delegate with example.	(10 Marks)
7	a.	What are delegates? Explain the concept of increases are given and the following advanced key words in C#	
	b.	Discuss the following advanced key words in C#. i) Checked ii) Unchecked iii) Stackalloc iv) Fixed. CMRIT LIBRARY	(10 Marks)
		i) Checked ii) Unchecked iii) Stackalloc iv) Fixed. RANGALORE - 560 037	
		Explain the two conceptual views of •NET assembly, with a neat diagram. V	What are its
8	a.		(10 Marks)
	100	benefits?	(/
	b.		
		i) Cross language inheritance	(10 Marks)
		ii) Shared assembly.	(10 mains)