Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.

Librarian Learning Resource Centre Acharya Institutes

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Seventh Semester B.E. Degree Examination, July/August 2022 C# Programming and .NET												
Time: 3 hrs. Max. Marks: 100												
Note: Answer any FIVE full questions, selecting at least TWO questions from each part.												
1	0	Whatia	TC2 F	nlain	in da	toil	СТ	PART		10 ov	omnle	(10 Mayles)
1	a. b.	What is CTS? Explain in detail CTS types with suitable example. What is an Assembly Differentiate Single file Assembly and Multifile assemb										(10 Marks) (05 Marks)
	c. What are the key features of C# language								ile 7 kssemio	ij an	a magnitude association y .	(05 Marks)
				(3					SV V	
2	 a. Explain the working of mscoree.dll b. List and explain the various outputoptions available with C# compiler. Also ill compile multiple source files. c. What is response file? Explain the working of csc.exe response files? 										2/V,	(07 Marks)
											# compiler. Also illust	
											onse files?	(08 Marks) (05 Marks)
		what is i	esponse	IIIC:	LAPI	anı	u).c	WOIKING	OI CSC.CAC	Tespa	onse mes:	(05 Marks)
3	a.	Explain the following terms:										
	(i) Static class											
		(ii)	Static					1/1/1	(622,			
		(iii) (iv)	Param Unbox	-	word	l		13	AN			(10 Marks)
	b.				es at	nd R	Refe	rence tvi	es with su	itable	e code for assignment	2
	b. Differentiate Value types and Reference types with suitable code for assignment operation. (10 Marks)											
4	a.	What is	property	in C	#? I	Exp	lain	in detai	l read-only	v. wi	rite-only and static pr	operty with
		example.				1	\$		(A).		,	(10 Marks)
	b.	Write a p							ce hierarch			
		(i)							ount and sa			
		(ii) Initialize the members using suitable constructor.(iii) Read and display all the information.										
		(iii)	Read	and di	spia.	y an	rine		Account		The state of the s	
					Carlot Contract	1			countNum	ber		
				12	L.	1			talBalance		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
				XY,))				posit ()		7735	
			f.	149	nC.			1	thdraw ()			
+ getBalance ()												
	CheckingAccount SavingAccount									SavingAccount		
		[17/3	- fee	3	, 100					- int Rate	2)_
+ deductfee () + addInterst ()											(6	

a. List and explain the members of System.GC type.

(05 Marks)

(10 Marks)

b. Explain how garbage collection is optimized in .NET platform.

(05 Marks)

c. What is exception in C#? Illustrate the use of System. Exception base class in throwing (10 Marks) generic exception.

- (10 Marks) Explain different ways of invoking interface members at object level. Distinguish between shallow and deep copy as applied to cloning. Write suitable program to
 - (10 Marks) demonstrate a custom class using Icloneable interface.
- What do you understand by Delegates and events in C#. Explain with suitable examples. (10 Marks)
 - Write a C# program to overload binary '+' and '-' operators and perform addition and subtraction/program on objects.
- Explain the following terms: 8
 - Generic Classes a.
 - b. Strong Names.
 - c. Building Multifile assembly.
 - d. System.Collections.Generic Namespace.

(20 Marks)