## **END TERM EXAMINATION**

## THIRD SEMESTER [MCA] December 2011

Paper Code: MCA 209 Subject: C# Progra					
Time: 3 Hours Maximum Mark					
Note: Q. No. is compulsory. Attempt one question from each Unit					
(	Q1.				
	a)	what is CLR? Explain the role of CLR in the Dot Net Framework? $(2X10=20)$			
	b)	what is the difference between c++ and c#?			
	c)	what are the fundamental differences between value types and reference types	?		
	d)	What is Partial Class?			
	e)	What is sealed Class? Explain with example.			
	f)	What is the use of static constructor in c#?			
	g)	What is inclusion polymorphism?			
	h)	What's the purpose of finally block in trycatch?			
	i)	How LINQ is beneficial than Stored Procedures?			
	j)	Why select clause comes after from clause in LINQ?			
		<u>Unit –I</u>			
Q2.	a)	What are the advantages of CLR?	<b>(5)</b>		
	b)	What is assembly?	<b>(5)</b>		
Q3.	a)	Explain common language infrastructure, common type system and	common		
	•	guage specification?	<b>(5)</b>		
	b)	Why .Net Platform independent?	(5)		
		<u>Unit II</u>			
Q4	a)	Explain jagged array, Array list and Bit Array?	<b>(4)</b>		
	b)	Difference between dispose and finalize methods?	(3)		
	c)	why the MAIN() method is Static?	(3)		
Q5.	a)	What is the difference between keywords var and dynamic? Explain with			
	,	, , , , , , , , , , , , , , , , , , , ,	· (4)		
	b)	what is compile time and run time polymorphism? Explain with example.	<b>(4)</b>		
	c)	What is specialization and generalization?	(2)		
	-,		(_)		
		<u>Unit III</u>			
Q6.	a)	Explain why function pointer in C is not but .Net delegates are type safe?	(3)		
	b)	What is XAML?	(3)		
	c)	What is Dictonary? Why are the calculated hash values should be evenly d			
	,	between int.minValue and int.MaxValue?	<b>(4)</b>		
Q7.	a)	Explain how creating application using WPF is better than windows forms?	(4)		
	b)	What is Stack Collection? Explain following methods of Stack Collection.	<b>(6)</b>		
	~,		(~)		
		i. Clear() ii. Peek() iii. Contains() iv. Pop() v. Copyto()			

Unit -IV

Q8.	a)	What is the benefit of using LINQ on dataset?	(5)
	b)	What is Quantifiers in LINQ?	(5)
Q9.	a)	What are extention methods in C#? Explain with example.	(5)
	b)	What is Data Context? Explain with example.	(5)

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