(05 Marks)

TECHNO

Fifth Semester MCA Degr

Fifth Semester MCA Degree Examination, Jan./Feb. 2021 Programming using C# and .NET

Time: 3 hrs.

Note: Answer any FIVE full questions.

Max. Marks:100

1	a. b.	What is .Net platform? Explain the major components of .Net and discresponsibilities. What is meant by managed code and unmanaged code with respect to .Net? Explain	(10 Marks)
		The second of managed out of managed out of the second of the second out of the seco	(05 Marks)
	C.	Write a short note on Windows workflow foundation.	(05 Marks)
2	a.	Explain 'ref' and 'out' parameters with suitable examples.	(06 Marks)
_	b.	Explain different types of conversions supported by C# ·Net. Give example for b	
	0.	unboxing.	(06 Marks)
	c.	List the C# preprocessor directives with description of each.	(08 Marks)
	С.	List the Cir preprocessor uncerives with description of each.	(00 Marks)
3	a.	What are namespaces? List and explain any four namespaces provided by .Net frai	nework
J	, s	what are namespaces. East and explain any loar namespaces provided by liver har	(06 Marks)
4	b.	What are indexers? Explain with code example.	(08 Marks)
	c.	Explain the following: (i) Nested classes (ii) Partial classes	(06 Marks)
		(c)	(
4	a.	What are the methods used to enforce encapsulation? Explain with code example.	(10 Marks)
-	b.	Explain the following with example:	
		(i) Runtime polymorphism	
		(ii) Implementation of interface	(10 Marks)
5	a.	Explain multicasting with delegates with code example.	(08 Marks)
•	b.	Write a program in C# to demonstrate exception handling in C#.	(06 Marks)
	c.	Write short notes on:	
		(i) Checked and unchecked statements	
		(ii) Events and event handlers	(06 Marks)
6	a.	List and explain the major control class properties and methods.	(05 Marks)
	b.	Explain event handling mechanism with a simple event driven GUI.	(10 Marks)
	C.	List and explain major properties and events of CheckBox class.	(05 Marks)
	B		
7	a.	Describe the architecture of ADO.Net and explain the common ADO.Net objects.	
	b.	Write a note on Data Adapters available in .Net framework and give the code for	creating a
		DataSet from DataAdapter.	(08 Marks)
8	a.	List and explain HttpSessionState properties.	(05 Marks)
	b.	Write a short note on session tracking.	(05 Marks)
	c.	Explain the multifier web application architecture with a neat diagram.	(05 Marks)
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What is validation? Write a note on validation controls in ASP.Net.