

16/17MCA52

## Fifth Semester MCA Degree Examination, July/August 2021 Programming using C# and •NET

Time: 3 hrs.

Max. Marks:80

Note: Answer any FIVE full questions.

	1	a.	Explain the benefits of •NET framework with help of architecture diagram.	(08 Marks)
		b.	Explain any five components of •NET frame work 4.0.	(08 Marks)
	2	a.	Explain the various preprocessor directives in C#.	(06 Marks)
		b.	What is boxing and unboxing? Write a C# console application to demonstrate b	oxing and
			unboxing.	(08 Marks)
		C.	Discuss the significance of is and as operator.	(02 Marks)
	3	a.	Differentiate between properties and indexers.	(06 Marks)
		b.	Explain different method parameter modificer with suitable examples.	(08 Marks)
		C.	Differentiate between jagged array and rectangular array.	(02 Marks)
	4	0	How method overriding is different from method over loading? Explain with an ex	zamnle
	4	a.	Trow inclind overriding is different from method over loading: Explain with an ex-	(08 Marks)
		b.	Write a C# program to explain multiple inheritance using interface.	(08 Marks
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- 1		0	What are delegates? Explain the types of delegates with suitable examples.	(08 Marks)
	5	a. b.	How are exceptions handled in C#. Illustrate with an examples.	(08 Marks)
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				(0635.1.)
-	6	a.	Write a C# code to create a dataset from data adapter.	(06 Marks)
		b.	Explain the components of ADO.NET entity framework.	(06 Marks)
		C.	Discuss the components of data sets.	(04 Marks
	7		Discuss group boxes and panel controls with respect to window form.	(08 Marks)
		b.	Explain the steps involved in creating MDI forms.	(08 Marks)
	8	a.	Explain various mouse events in C# window application.	(06 Marks)
		b.	Write steps to create a connection to a database using SQL server database.	(10 Marks)
	0	2	Explain the architecture of a three tier web based application.	(08 Marks)
	9	a. b.	Explain session tracking in detail.	(08 Marks)
		υ.	Explain session tracking in detail.	(00111111111)
	1.0	_	Explain different validation control with quitable examples supported by ASP NE	г
	10	a.	Explain different validation control with suitable examples supported by ASP.NE	(08 Marks)
		b.	Write a web based application using C# ASP.NET to display date and time with a	,
		υ.		(08 Marks)