USN

Fifth Semester MCA Degree Examination, Aug./Spet. 2020 Programming using C# •NET

Time: 3 hrs.

Max. Marks:100

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Note: Answer any FIVE full questions.			
1		With a neat diagram, explain the building blocks of •NET platform, and	what are the
1	a.	benefits of •NET framework.	(10 Marks)
	1.:	Explain the function of the •NET runtime(CLR).	(05 Marks)
	b.	What are the new features introduced in •NET framework 4.0?	(05 Marks)
	C.	what are the new leatures introduced in •NET framework 4.0:	(05 Marks)
2	a.	Bring out the differences between value types and reference types. Explain	boxing and
_		un-boxing with example.	(10 Marks)
	b.	Explain the following operators with example:	
	U.	i) Scope resolution	(03 Marks)
		ii) is and as operator	(04 Marks)
		iii) ?? (Null coalescing) operator.	(03 Marks)
		III) !! (Null coalescing) operator.	(00 1.20122)
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3	a.	Explain the concept of static method, static field, static class and static cor	
		suitable example.	(10 Marks)
	b.	What is the difference between a property and an indexer with example?	(10 Marks)
4	a.	What is encapsulation? What are the two ways of enforcing encapsulation? O	live examples
		for both methods.	(08 Marks)
	b.	Explain override method using virtual and abstract method.	(08 Marks)
	c.	How do you prevent inheritance? Explain with an example.	(04 Marks)
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- 5) s)
- Explain single cast and multicast delegates in C#. (05 Marks) (05 Marks) b. Describe the events in C#.
 - c. Differentiate between bugs, errors and exceptions. Explain •NET exception handling with (10 Marks) valid example code.
- (08 Marks) List the components of ADO•NET entity framework. How to create a database connection using SQL server and odbc. (12 Marks)
- What are the different stages of an ASP.NET web page? (10 Marks) 7 Specify what are the validation controls available in ASP•NET. (10 Marks)
- Explain the following in details:
 - Jagged array
 - b. Interfaces
 - c. Operator overloading
 - d. Pre-processor directives.

(20 Marks)