CBCS SCHEME

22MCA342

Third Semester MCA Degree Examination, Dec.2023/Jan.2024
Introduction to Dot Net Framework for Application Development

Time: 3 hrs.　　　　　　　　　　　　　　　　　　　Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

			M	L	C
		Module – 1			
Q.1	a.	What is optional parameters and named arguments with respect to methods? Explain with example code.	08	L2	CO1
	b.	Explain different iteration statement with example.	06	L2	CO1
	c.	With the help of example program, explain exception handling using try, catch and finally block.	06	L2	CO1
		OR			
Q.2	a.	Write an example program which demonstrates returning a value from a method.	06	L2	CO1
	b.	Explain if and switch statement with an example.	06	L2	CO1
	c.	Explain exception handling with a sample program to handle multiple exceptions.	08	L2	CO1
		Module – 2			
Q.3	a.	What is partial class? Write a program which demonstrates partial class.	06	L2	CO2
	b.	Illustrate ref and out parameters with suitable example code.	10	L2	CO2
	c.	List out the difference between value types and reference types.	04	L2	CO2
		OR			
Q.4	a.	Explain static method and static class with a sample code.	06	L2	CO2
	b.	What is boxing and unboxing? Explain with example.	06	L2	CO2
	c.	Explain is and as operator with an example program.	08	L2	CO2
		Module – 3			
Q.5	a.	What is inheritance? Demonstrate with program method overriding.	06	L3	CO3
	b.	With the help of program explain abstract class and abstract method.	07	L2	CO3
	c.	Illustrate with an example sealed class.	07	L3	CO3
		OR			
Q.6	a.	What is interface? Explain with program class implementing interface.	08	L3	CO3
	b.	Discuss extension method with the help of a program.	06	L3	CO3
	c.	Explain Garbage collector. How does the Garbage collector works?	06	L2	CO3
		Module – 4			
Q.7	a.	Explain encapsulation by using methods.	10	L2	CO4
	b.	What is indexer? Demonstrate indexer with a sample code.	10	L2	CO4
		OR			
Q.8	a.	Explain encapsulation using properties with the example program.	10	L2	CO4
	b.	What is Generics? Write a program using generic queue.	10	L3	CO4
		Module – 5			
Q.9	a.	What is delegate? Develop a program on delegate to find square of a number.	10	L3	CO4
	b.	Discuss Enumeration collections, IEnumerator IEnumerable.	10	L2	CO4
		OR			
Q.10	a.	What is operator overloading? Write a program to add two objects using operator overloading.	10	L3	CO4
	b.	Discuss Delegates and Events with example.	10	L2	CO4

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