

EndSemesterExamination2024

Name of the Course: MCA

Semester: 4

Name of the Paper :

Advanced Enterprise Architecture
using C# (.Net)

Paper Code: TMC-402(4)

Time:3 Hours

MaximumMarks:100

Note:

- All Questions are compulsory.
- Answer any two subquestions among a,b and c in each main question.
- Total marks in each main question are twenty.
- Each question carries 10 marks.

Q1	(10*2=20marks)	
(a)	Discuss .NET Frame work by using suitable diagram.	CO1
(b)	Explain Delegates. State the difference between single cast and multicast delegates.	
(c)	Write a program in C#.NET to show the implementation of Indexers and Properties in C#.NET.	
Q2	(10*2=20marks)	
(a)	Discuss Logging and Trace source in C#.NET.	CO2
(b)	What is MVVM. State how it is helpful in WPF based applications.	
(c)	What is XAML. Explain any five elements with their respective attributes associated with XAML.	
Q3	(10*2=20 marks)	
(a)	Define MVC. Explain the role of using MVC while designing ASP.NET application.	CO3
(b)	What is MVC Razor view. Write a code to show the implementation of jQuery.	
(c)	What is AJAX. Write the process of using AJAX while designing a web application.	
Q4	(10*2=20 marks)	
(a)	State the difference between Deferred execution vs immediate execution? Explain its process.	CO4
(b)	Write Short note on: <ol style="list-style-type: none"> Intersect LINQ Projection Join TakeWhile 	
(c)	Write a program through LINQ which shows the use of join operation between Student and Course table.	
Q5	(10*2=20 marks)	
(a)	What is Database first approach. Explain how it is associated with model first approach.	CO5
(b)	Define CRUD operations. Write a program to perform some CRUD operations in marks(roll, name,marks1,marks2,marks3) table.	

(c)	Define Entity Framework. Explain how it is associated with ORM products.
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