PRN:		Course Code :	BCA 301

Third Year **BCA** End Semester Examination Winter 2023

C# Programming

Day and Date: wednesday, 29/11/2023 Max Marks: **100**

Time : 10.30 am to 1.30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Describe the architecture of .NET framework with neat diagram	08	L1	CLO1
	b)	Explain the following in short 1) CTS 2) CLS 3) CLR	08	L2	CLO1
		OR			
	b)	How memory management is done in c#?	08	L1	CLO1
Q.2		**Attempt the following**			
	a)	Describe in detail about program control statements available in C# with suitable example	08	L1	CLO2
	b)	Classify the categories of looping statements in C#.	08	L3	CLO2
		OR			
	b)	Develop a C# program to find the factorial of given "N" number	08	L5	CLO2
Q.3		**Attempt any two from the following**			
	a)	Discuss the concept of interface n detail	08	L2	CLO3
	b)	List and Discuss the types of inheritance with example	08	L2	CLO3
	c)	Develop console based c# application to print employee details using class and object	08	L3	CLO3
Q.4		**Attempt any two from the following**			
	a)	Explain the various string function used in c# with example	08	L2	CLO2
	b)	Develop a program to implement a concept of method overloading.	08	L3	CLO3
	c)	Classify the types of arrays and features of arrays.	08	L3	CLO2
Q.5		**Attempt any Two of the following**			
	a)	Describe in short the following controls 1) Button. 2) Checkbox. 3) Radio Button.	09	L1	CLO4
	b)	Explain various windows forms events and control with example	09	L5	CLO4
	c)	Create a windows application that allows the user to enter a number in the textbox. Check whether the number in the textbox is palindrome or not. Print the message accordingly in the label control when the user clicks on the button "check".	09	L6	CLO4
Q.6		**Attempt any Two of the following**			
	a)	What is ADO.NET? List the advantages of ADO.NET	09	L1	CLO4
	b)	Develop a program for maintaining employee information (emp id, name, mobile no, department, salary) using ADO.NET and SQL Server.	09	L5	CLO4
	c)	What are the steps to link SQL Server to ADO.NET	09	L2	CLO4

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