PRN:		Course Code:	BCA301

Third Year **BCA** End Semester Examination Winter 2022

C # Programming

Day and Date: Monday, 12.12.2022 **Max Marks:** 100 Backlog

Time: 2.00 -5.00 pm **Duration:** 03 hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
a)	List different types of JIT compiler and Define it.	08	L1	CO2
b)	Explain architecture of .Net framework with the help of neat diagram.	08	L2	CO1
	OR			
b)	Define the following (a) CLR (b) FCL (c) Managed code (d) Garbage Collection	08	L1	CO2
Q.2	**Attempt the following**			
a)	Distinguish between DLL and EXE.	08	L4	CO3
b)	Importance of the concept of pass by value and pass by reference with example.	08	L5	CO2
	OR			
b)	Determine the concept of Command line arguments with an example.	08	L2	CO3
Q.3	**Attempt any two from the following**			
a)	Explain the concept of inheritance and types of inheritance.	08	L2	CO1
b)	Explain Event and Delegates with syntax and example.	08	L5	CO1
c)	Examine function overloading with example.	08	L4	CO1
Q.4	**Attempt any two from the following**			
a)	Explain in detail array and types of arrays.	08	L2	CO1
b)	Explain the Following string handling functions: (a) strcmp (b) strcpy (c) Strlwr d) strupr	08		CO1
c)	Develop C # program to print prime numbers between 1 to 50.	08	L3	CO3
Q.5	**Attempt any Two of the following**			
a)	Explain any four windows common controls with example.	09	L2	CO1
b)	Explain the concept of Thread & Describe Multithreading with examples.	09	L2	CO5
c)	Develop windows forms applications for student's enrollment in intercollege technical contest with appropriate form events and Controls.	09	L3	CO4
Q.6	**Attempt any Two of the following**			
a)	List and Explain in details various components of ADO.net.	09	L1	CO1
b)	Distinguish between connected architecture of ADO.NET and dis-connected architecture of ADO.NET	09	L4	CO4
c)	Develop a window form application that perform INSERT, UPDATE, & DELETE operations on database (using Connected architecture of ADO.NET)	09	L3	CO4

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