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**Presidency University**

**Bengaluru**

 **School Of Computer Science and Engineering & Information Science**

**End-Term Examinations, Aug 2024**

**Date**: 09/08/2024

**Time**: 9:30am -12:30pm

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSA4012

**Course Name**: Programming in C#

**Department: MCA**

 **Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. List Out any four features of .Net aware programming languages.
 | 4 | CO1 | L1 |
| 1. Explain meta data and PE file
 | 6 | CO1 | L2 |
| 1. What is Polymorphism and explain the types of polymorphism with an example program.
 | 10 | CO1 | L3 |
| OR |
| 2 | 1. Explain any four features of C#
 | 4 | CO1 | L1 |
| 1. Explain CLR with suitable diagram.
 | 6 | CO1 | L2 |
| 1. 1. What are assemblies and explain the properties of assemblies.

2. Explain common language infrastructure with its aspects. | 10 | CO1 | L3 |

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| 3 | 1. Write an C# program for for loop and explain the same
 | 4 | CO2 | L1 |
| 1. Explain CTS, and CLS concept
 | 6 | CO2 | L2 |
| 1. Define and explain the types of Inheritance along with interface concept

with example program and explain the same. | 10 | CO2 | L3 |

OR

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| 4 | 1. Write a C# program to generate prime numbers
 | 4 | CO2 | L1 |
| 1. Write a C# Program for run time polymorphism and explain the same
 | 6 | CO2 | L2 |
| 1. 1. Write a C# program to check whether the given number is Fibonacci series or

not and explain the same.2. Write a C# Program to create Multiplication table and explain the same. | 10 | CO2 | L3 |

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| 5 | 1. Write ant four differences between thread and process
 | 4 | CO3 | L1 |
| 1. Illustrate class and object concept with example program .
 | 6 | CO3 | L2 |
| 1. Write a C# Program to display odd, even and N natural numbers using switch case

and explain the same. | 10 | CO3 | L3 |

OR

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| 6 | 1. Write a Program for start() method.
 | 4 | CO3 | L1 |
| 1. Write a C# program to illustrate abort() method
 | 6 | CO3 | L2 |
| 1. Explain thread synchronization with example Program.
 | 10 | CO3 | L3 |

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| 7 | 1. Write an example program for simple inheritance
 | 4 | CO4 | L1 |
| 1. Explain the properties of a Thread class.
 | 6 | CO4 | L2 |
| 1. Explain Exception concept with example program.
 | 10 | CO4 | L3 |

OR

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| 8 | 1. Explain Thread class methods
 | 4 | CO4 | L1 |
| 1. Explain system exception concept with example program
 | 6 | CO4 | L2 |
| 1. Explain Thread Life cycle with example Program
 | 10 | CO4 | L3 |

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| 9 | 1. Write a c# program for while loop
 | 4 | CO1 | L1 |
| 1. Write a C# program for Multi level inheritance
 | 6 | CO1 | L2 |
| 1. Explain Object oriented concepts in C#
 | 10 | CO1 | L3 |

OR

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| --- | --- | --- | --- | --- |
| 10 | 1. Explain any four properties of System. Exception classes
 | 4 | CO2 | L1 |
| 1. Illustrate lambda expressions in delegates and explain the same.
 | 6 | CO2 | L2 |
| 1. Write a C# Program to illustrate action delegates

. | 10 | CO2 | L3 |