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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 |