**ST. JOSEPH’S UNIVERSITY, BENGALURU -27**

Registration Number:

Date & Session

**BCA – III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November/ December 2023)**

**CA 3222 : C# and DOT NET Framework**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 60**

**This paper contains 2 printed pages and 3 parts**

**PART-A**

**Answer all FIVE questions (2 X 5 = 10)**

1. State some of the new features that are unique to c# language?
2. What is the importance of the command line arguments in a c# program?
3. What are parameters arrays?
4. Compare boxing and unboxing.
5. What is Difference between early binding and late binding in C#?

**PART- B**

**Answer any FIVE questions (4 X 5 = 20)**

1. Write a C# program to find the factorial of given “N” number using foreach loop .
2. Explain with example the method of implementing encapsulation in C#.
3. Write a c# program to store student information using jagged array
4. Can you override a constructor? justify
5. Write a program for preparing income tax details of employees in an organization using inheritance in C#
6. What are the different execute () methods available in ADO.NET?
7. Write a c# program to implement multicast delegates on department details.

**PART- C**

**Answer any THREE questions (10 X 3 = 30)**

1. Explain .Net framework in detail?
2. Develop a program to find area of various shapes rectangle, circle, and triangle. Use the concept of the polymorphism.
3. Write a class Time() which represents time. The class should have three fields for hours, minutes and seconds. It should have a constructor to initialize the hours, minutes and seconds and a method print Time() to print the current time.
4. a) Write a web based application to implement a ticket status checking system using ASP components. (6+4)
5. Compare ASP with ASP.Net